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The CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

Founded 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

157 MAY 11, 1946 Annual Subscription (with Diary) 25/- Single copies 9d.

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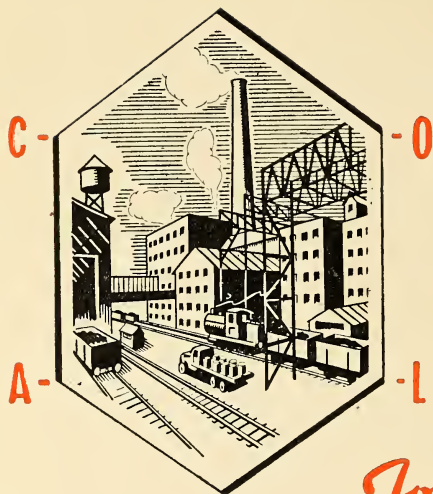
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(a) the development of a 'humanised' formula, as that of Ostermilk No. 1,

(b) the addition of iron and vitamin D*, as in both Ostermilk No. 1 and No. 2,

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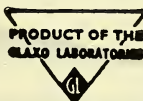
Ostermilk is a roller-dried milk food of standardised composition; it is bacteriologically safe and contains added iron and vitamin D. Ostermilk No. 1 with reduced fat and protein and an increased lactose content is suitable for infants up to three months; Ostermilk No. 2 is a full cream food for older infants.

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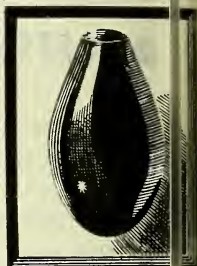
* Ostermilk No. 1 and No. 2
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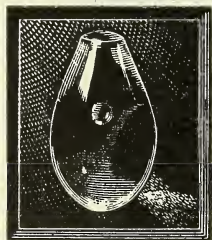
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INDEX TO ADVERTISERS

...Ped, Ltd.	xx
...o, Ltd.	xix
...y, R., & Son, Ltd.	vii
...ett & Foster, Ltd.	10
...es, Ltd.	xv
...well, Hayes & Co., Ltd.	iv
...on, Astley & Co., Ltd.	14
...y & Martin, Ltd.	iv
...as, Ltd.	xv
...h Drug Houses, Ltd., The	i
...h Dyewood Co., Ltd.	ii
...h Felsol Co., Ltd.	Cover iv
...h Schering, Ltd.	5
...t, Warren & Ridgley, Ltd.	26
...ugh, James, Ltd.	Leader Page
...ughs Wellcome & Co.	27
...rt, F. C., & Co., Ltd.	4
...on Press, Ltd.	14
...right, W. B., Ltd.	.6
...A., & Sons, Ltd.	xiii
...Huskisson, Ltd.	15
...s, Ltd.	4
...e, Jean, Beauty Preparations	24
...e Laboratories	xx
...ental Laboratories, Ltd.	22
...r Laboratory, Ltd.	10
...r, Son & Co., Ltd.	Leader Page
...rthur H., & Co., Ltd.	17
...n, Gerrard & Co., Ltd.	12
...o, Co., Ltd.	xx
...or, N. S., Ltd.	iv
...r, Richard, & Son, Ltd.	13
...W. M., & Co.	24

Demuth, R., & Co., Ltd.	26
Dengerm, Ltd.	xviii
Elmbalm Pharmaceutical Specialities Co.	Leader Page
Empire Rubber Co.	xviii
Energen Foods, Ltd.	12
Evans Medical Supplies, Ltd.	3
Fasteeth	xix
Fennings, A.	xxi & Leader Page
Ferris & Co., Ltd.	15
Fink, F., & Co.	iv
Franks, A., & Bartlett Co., Ltd.	24
Freudentheil, Smith & Co.	Leader Page
Fryer & Co. (Nelson), Ltd.	26
Fubex, Ltd.	Cover iii
Fulford, C. E., Ltd.	15
Genoxide, Ltd.	iii
Glaxo Laboratories, Ltd.	1
Goya	24
Graesser, R., Ltd.	iv
Graesser Salicylates, Ltd.	ii
Hall, Forster & Co., Ltd.	14
Hampshire, F. W., & Co., Ltd.	11
Harley, T., Ltd.	xv & xvi
Harris, Hart & Co., Ltd.	iii
Harrison, A., & Sons, Ltd.	4
Health Products Laboratories, Ltd.	4
Hobson, Trimble & Co., Ltd.	vii
Hurtley, F., Ltd.	viii
Ingram, J. G., & Son, Ltd.	xiii
Jeffreys, Miller & Co., Ltd.	15
Jobling, J. A., & Co., Ltd.	vi
Johnson & Sons, Manufacturing Chemists, Ltd.	iii

(continued overleaf)

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INDEX—(contd.)

Kemball, Bishop & Co., Ltd.	19	Pierson Morrell & Co., Ltd.	
Kenrosa, Ltd.	22	Pinauds, Ltd.	
Kerfoot, T., & Co., Ltd.	28	Portland Plastics, Ltd.	
Kershaw-Soho (Sales), Ltd.	xvii	Potter & Clarke, Ltd.	
Khan, S.	Leader Page	Prideaux Milk Foods, Ltd.	Leader
Knox, John, Ltd.	26	Rae-Bentley Lighters	
Leda Chemicals, Ltd.	xix	Rankin Bros. & Sons	Leader
Liquinure Sales	xv	Reckitt & Sons, Ltd.	
Lofthouse & Saltmer, Ltd.	10	Rendell, W. J., Ltd.	
Loveluck Edwards & Co.	Leader Page	Rose, J. L., Ltd.	
Lusty's Natural Products	Leader Page		
Manesty Machines, Ltd.	23	Salter, George, Ltd.	
Marns, T.	xxi	Sandoz Products, Ltd.	
Marshall's	xvi	Schutze, F., & Co., Ltd.	
Matthews, S., & Co., Ltd.	8	Septisol, Ltd.	
Midgley & Parkinson, Ltd.	14	Sessions, Wm., Ltd.	
Midland Bank, Ltd.	xviii	Shadforth Prescription Service	Leader
Mitchell, L. A., Ltd.	v	Simpson, J. W. (Chemist), Ltd.	
Mono Containers, Ltd.	xi	Sorbo, Ltd.	
Monsanto Chemicals, Ltd.	Cover ii	Splendor, Ltd.	26
		Swan Mill Paper Co., Ltd.	
National Glass Works (York), Ltd.	v	Tampax, Ltd.	
Nevilles Distributors, Ltd.	xvi	Thornfield, Godfrey, Ltd.	
Nutrilis Products	xv	Treece Polish Co., Ltd.	
		Trade Mark Protection Society	
Olley, C., & Sons, Ltd.	iv	Tye, John, & Son	
Optrex, Ltd.	xiv	Tyrer, T., & Co., Ltd.	
Ormerod Engineers, Ltd.	v		
Oxo, Ltd.	xxii	United Glass Bottle Manufacturers, Ltd.	
Percenta, Ltd.	vi	Waide, Thos., & Sons, Ltd.	
Perken, Son & Co., Ltd.	viii	Walters, Gerrard, & Co.	
Pharmaceutical Specialities (May & Baker), Ltd.	Front Cover	Westminster Laboratories, Ltd.	
Phosferine (Ashton & Parsons), Ltd.	14	Wilcox, Jozeau & Co., Ltd.	
		Yardley & Co., Ltd.	
		Zeal, G. H., Ltd.	

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FOR FEMININE HYGIENE

ADVERTISING WHICH NEVER STOPS

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FOR FEMININE HYGIENE

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Dettol

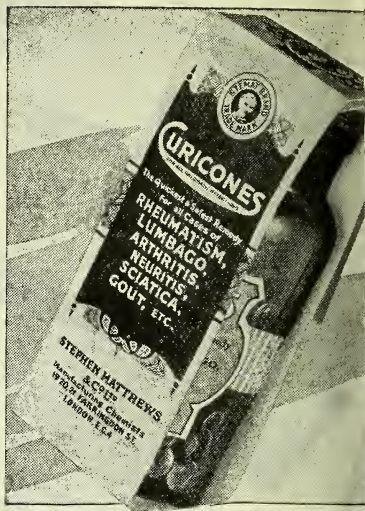
BRAND

Ointment

Effectively bactericidal yet non-irritant; emollient and penetrative: combining these qualities 'Dettol' Ointment (*P*-chlor-*m*-xlenol and other active principles of 'Dettol') is ideally adapted to the treatment of septic conditions of the skin.

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Snowfire
★ FACE POWDER
★ VANISHING CREAM
NEW HANDBAG CONTAINERS
Also, ALSO LARGER SIZES.

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—Dancing with Jack tonight—how grand! She wants to look her most glamorous best, so she's taking every good care that 'shiny oose' won't spoil everything—her Snowfire Powder-Cream will give her complexion confidence all evening long.



Snowfire
★ POWDER-CREAM
★ VANISHING CREAM
NEW HANDBAG CONTAINERS

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—and the wedding is tomorrow! What a beautiful bride she will be—her flawless skin will be admired by everyone, most of all by the lucky man himself. It was her radiant clear complexion that first attracted him; Snowfire Vanishing Cream, the perfect Powder base, gives it that bewitching charm.



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★ FACE POWDER
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Vanishing Cream

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Snowfire

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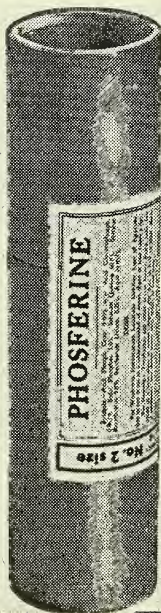
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Manufacturing Chemists

BRIGHTON — ENGLAND

Plate Glass Prescription

When you come to think of it, a window display should talk—say something to the passer-by which will bring him or her into the shop. That's the proper function of a window anyway. But some displays don't talk—they ramble. An indiscriminate jumble of everything is like a disconnected conversation. There's nothing to rivet the attention. And nobody takes any particular notice of it.

To illustrate the theory, here's a fact. A customer of ours sold Simpson's Foot Ointment in unusually large quantities. In talking to him to find out why, two things emerged. Firstly, general takings were up, apart from the abnormal takings for Simpson's Foot Ointment. Secondly, both coincided with a centre Simpson's Foot Ointment display which had clearly done the trick. "It brings the people in and, apart from cosmetics, is

the most profitable line I have," he told us, "so, naturally it has prominence in my window."

That's the way to use window space *creatively*.

(1) A **focal point** to catch the eye.

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Page 137

Chemicals

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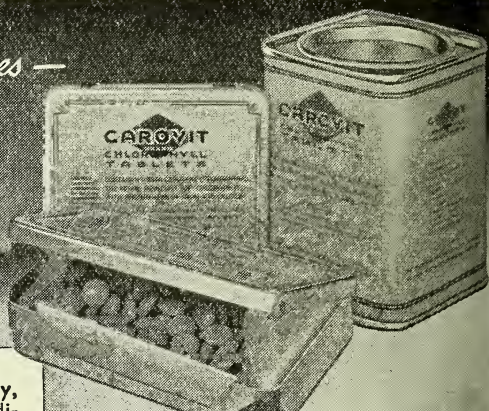
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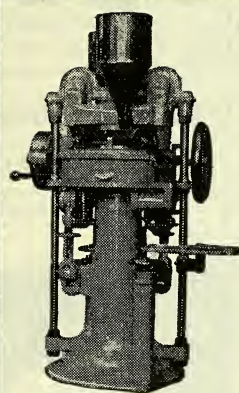
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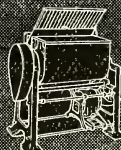


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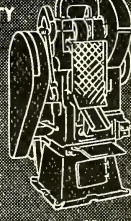
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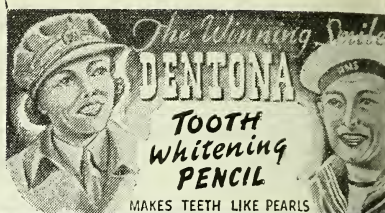
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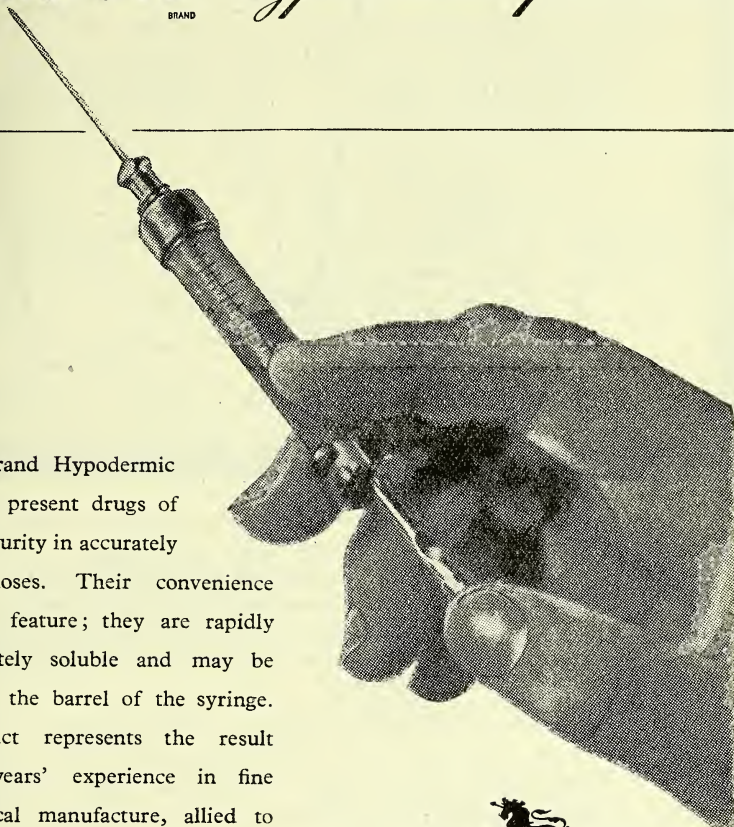
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CONTENTS

	Page		Page
of an Industry	590	Overseas Trade News	604
ss Changes	583	P.A.T.A. Memories	585
Officials of Pharmaceutical and		Penicillin by Deep Culture (Pictures)	592
g Organisations, Nos. 10 and 11.	596	Penicillin in Plenty—on Prescription	586
g Events	584	Penicillin Packs and Dispensing Screen	594
ny News	584	Personalities	582
pudence	608	Pharmaceutical Society of Great	
of Mr. P. F. Rowsell	580	Britain: Council Meeting	598
s	582	Pharmaceutical Society of Northern	
ssion on Penicillin Production ..	587	Ireland: Council Meeting	602
ial Articles:—		Topical Reflections	581
blems of Penicillin Programme	589	Trade Marks	608
perity Campaign	589	Trade Notes	583
made Appliances	601	Trade Report	605
ages	582	West of Ireland Trade Matters	603

NEWS OF THE WEEK

Release of Army Medical Officers.—By order 30 general-duty medical officers group 50, and specialists up to group 1 will be released, according to an announcement issued by the War Office.

Gun Bags Decontrolled.—The Control of Gun Bags (No. 3) Order, 1946, in force from May 13, releases from control gun bags wholly or partly of cotton. It operates an amendment made by the Control of Textile Bags (No. 2) Order, 1946, which placed sandbags from control; that order is therefore revoked.

Search for German Text-books.—A party composed of professors of chemistry in universities and of the librarian of the Chemical Society recently commenced a search in libraries for German chemistry text-books obtained during the war. Books found will be placed in Burlington House library for distribution throughout Britain.

Diploma in Biochemical Analysis.—The Council has satisfied the examiners in the examination for the Diploma in Biochemical

Analysis, England and Wales, held in April 1946: Adcock, Walter James; Cormack, Harold; Dean, Desmond Alfred; Nasmyth, Peter Alexander; and Osborne, Raymond Bertram. Five others failed. In Scotland, two entered, of whom Dorothy Mabel Bruce satisfied the examiners.

China Clay Working-party.—To advise on steps to be taken to strengthen the china clay industry and to help it to meet competition in the home and foreign markets a working party has been appointed by the President of the Board of Trade, and has already commenced work. Persons or organisations wishing to submit suggestions or information should write to the Secretary, China Clay Working Party, Neville House, Page Street, London, S.W.1.

Plebiscite for Doctors on N.H.S. Bill?—A referendum of the whole medical profession, to determine the view of the profession before the National Health Service Bill becomes law, or before the Council of the British Medical Association recommends doctors to accept or refuse

service under the Bill, may be the outcome of two resolutions passed at the special representatives meeting of the Association in London recently. Opposition was shown to "... the arbitrary powers of the Minister to control the profession by regulation. . . ."

Pharmacist's Premises Damaged.—The pharmacy of Denzil, Thomson & Co., 137 Queen's Crescent, Kentish Town, London, N.W.5, received damage recently when a fire engine crashed into the side door.

Co-op Drug Department's Sales.—During the first quarter of this year the sales of the drug department of the Shettleston Co-operative Society, Ltd., Glasgow, averaged over £1,000 per week. Total drug sales for the quarter amounted to £13,369.

Eighty Years in Business.—The eightieth birthday of the business of H. W. Beal & Son, chemists, 3 High Street, South Norwood, London, S.E.25, has recently been celebrated. Business is still conducted at 12 Portland Road, South Norwood, the original address.

Birmingham V-day Dispensing.—Birmingham chemists who provide the rota service for dispensing on Sunday, June 9, are being asked by the Pharmaceutical Committee to provide the service on Victory Day, June 8, from noon to 1 p.m., or to arrange for the service to be provided by another pharmacist.

British Plastics Federation.—A team organised by the British Plastics Federation was among the first to go to Germany to earmark plant for reparation claims, and to investigate processes in the plastic industry, stated Mr. H. W. Graesser-Thomas (chairman) at the annual meeting of the Federation, recently.

London Chamber of Commerce Appointment.—Sir Frank Newson-Smith was elected president of the London Chamber of Commerce at the annual meeting on April 30. A summary of the Chamber's work was given by the chairman of the Council (Mr. John McLean) who said membership had reached the record figure of 12,500.

Plymouth Pharmaceutical Officers.—Mr. T. B. Harvey (a member of the committee, Plymouth Branch, Pharmaceutical Society) was recently elected to the Plymouth City Council. At the annual meeting of the Branch recently the following officers, in addition to the committee, were elected: *Chairman*, Mr. V. Smith; *Vice-chairman*, Mr. E. C. Burrow; *Secretary*, Mr. A. G. Madge; *Treasurer*, Mr. R. Ramsden.

Slough Dinner and Dance.—Mr. Adams (deputy secretary, Pharmacological Society), Dr. James (Slough Emergency Hospital) and Mr. Hewitt (secretary, Chamber of Commerce), were given honour at the first dinner and dance at Slough, Maidenhead and Windsor Branch of the Pharmaceutical Society recently. Mr. H. P. Elliott presided, and Mr. Cripps proposed the toast of "The Ladies and other Visitors."

Manchester Activities Reviewed.—A reference was made to the success of the recent refresher course in Manchester at the annual meetings of the Manchester Pharmaceutical Association and Branch of the Pharmaceutical Society on April 10. Mr. W. Wilkinson (president) was in the chair. Messrs. J. H. Franklin and Phillipson (Branch representatives) reported on the proceedings of the recent Representatives' meeting in London.

North Staffs Pharmaceutical Officers.—At the annual meeting of the North Staffs Branch, Pharmaceutical Society, recently, the following officers were appointed: *President*, Mr. H. E. D. Dwyer; *Vice-presidents*, Messrs. J. Martin and R. A. Hackney; *Treasurer*, Mr. H. Mott; *Secretary*, Mr. R. A. Haslam. Mr. H. Steinman (a candidate for the Society's Council) at the meeting gave an address on "Retail Pharmacy—Its place in the National Health Service."

Plymouth Penicillin Lecture.—A dispensary specially built for the purpose is now open at the Prince of Wales Hospital, Plymouth, and a demonstration of penicillin dispensing by Mr. E. Williams, M.P.S. (senior pharmacist), were features of a meeting of the Plymouth Branch, Pharmaceutical Society, held recently. Earlier, Dr. T. H. (assistant pathologist) and Mr. H. C. M.P.S. (superintendent pharmacist) gave a joint lecture on "The Pathological and Pharmaceutical Aspects of Penicillin."

Chemical Research Exhibition.—The exhibition organised by Imperial Chemical Industries, Ltd. (see *C. & D.*, April 27, p. 576) to illustrate achievements of chemical research during the war, will be open at the Tea Centre, Lower Regent Street (corner of Jermyn Street), London, S.W.1, on June 5 and will remain open daily from 10.30 a.m. until 8 p.m. (Sundays, 2 until 7 p.m.) until June 28. A charge of one shilling will be made for admission, and the proceeds will be given to the Empire Cancer Research Fund.

National Association of Women Pharmacists.—Miss C. Mozley-Stark, in her presidential address at the annual meeting of the National Association of Women Pharmacists in London recently, said that women chemists should share the responsibility of initiating regulations affecting pharmaceuticals. She said that the National Health Service Bill would secure a position on the negotiating committee. At the meeting it was decided to raise the annual subscriptions for full and non-practising members to £3 and 3s. 6d., respectively.

Retirement Presentations.—Five representatives of A. & F. Pears, Ltd., Isleworth, presented to the company: Messrs. Thomas A. Lyon, East London (thirty years' service); W. W. Lyon, North and North-west London (thirty-two years); E. Baker, Birmingham (thirty-one years); George Austin, Edinburgh and South-east Scotland (twenty-one); and S. Cumming, Aberdeen and North London (twenty-three) have retired. At the gathering of the company's representatives each was presented with an engraved clock, suitably inscribed, from their colleagues.

Expansion Scheme.—Imperial Chemical Industries, Ltd., are to spend £1,000,000 on a scheme of expansion in the chemical branch of their undertakings. The division engages in many chemical processes, including chemotherapy, the polymer fields and rubber chemicals. The present staff totals 1,500, of whom 600 are chemists. The remainder are made up of staff with degrees in physics, biological sciences, pharmacy, engineering, metallurgy and mathematics. The scheme includes an increase in scientific manpower up to one hundred per cent and between 20,000 and 25,000 sq. ft. of laboratory space will be necessary.

De-scheduling of Essential Work.—The Ministry of Labour and National Service has announced the Essential Work (De-scheduling) Regulations, 1946, (S.R. & O., 1946, No. 530, Stationery Office, price one penny). These provide that, where a person employed in a scheduled undertaking is dismissed for misconduct, he may appeal to a Compensation Appeals Board. The Board may, in his case and a national service case, may, if the Board's decision is that the dismissal is not justified, issue a notice to the employer to reinstate the employee, even though the undertaking has ceased to be de-scheduled. The employee will then become operative on the guaranteed wage provisions apply from the date of de-scheduling.

IRISH NEWS

New Ulster Associates.—The monthly meeting of the associates' section of the Ulster Chemists' Association was held in Belfast, on April 30, Mr. M. D. Moore, Ph.C., in the chair. On the proposal of Mr. E. G. Mackle, seconded by Mr. J. Anderson, Ph.C., the following applications for associateship were approved:—Pharmaceutical Chemist: Mr. J. A. McKeown; Assistants: Messrs. V. T. Waite, Thomas Edgar, W. J. Beck, S. T. McIlroy, J. R. McIlrath and Wilfrid Black. The secretary reported that negotiations were in progress concerning the appointment of a dispenser at Purdysburn Hospital.

Assistants' Examination Results.—The following candidates were successful in the July Assistants' examination of the Pharmaceutical Society of Ireland: Francis Joseph Bourke, Patrick Gerrard Coffey, Margaret Mary Coyne, Mary Ethel Crowley, Eimir Attracta Cullen, William Michael Dolan, Mary Patricia Drury, Daniel Michael Fleming, Michael Cuan Flynn, Mairgead Hickey, John Michael Kelly, Naomh Mary Aloysius Kennedy, Mary Veronica Kennelly, Thomas Lyons, Barbara McCarthy, Martin Patrick McCooey, Mary McGuinn, Robert Joseph Nutty, Michael Joseph O'Brien, Walter O'Donnell, Johanna Mary O'Gorman, Eamonn O'Mahony, Anna Winifred O'Reilly, Mary O'Sullivan, Elizabeth Mary Riordan, Ellen Ryan, Mary Teresa Ryan, Annie Teresa Scully, Michael Patrick Sharkey, Thomas Joseph M. Toohey, Joan Walshe. Thirty-one out of fifty-six candidates passed the examination.

Northern Ireland Poisons Regulations.—The Regulations made by the Council of the Pharmaceutical Society of Northern Ireland on February 15, 1946, with the approval of the Minister of Home Affairs, under Section 3 of the Pharmacy and Poisons Act (Northern Ireland), 1925, as amended by the Medicines, Pharmacy and Poisons Act (Northern Ireland), 1945, have been issued as S.R. & O., Northern Ireland, 1946, No. 37. They are cited as the Pharmaceutical Society of Northern Ireland (General) Regulations and deal with the election of the Council and its officers, its meetings, registration and retention fees, examinations, and rules for apprentices. An appendix sets out the syllabuses for the examinations, draft articles of pupilage, and regulations for a practical course of study. The regulations came into force on April 1. Copies are obtainable from H.M. Stationery Office, Belfast, price ninepence each.

DEATH OF MR. P. F. ROWSELL

MR. PHILIP FOALE ROWSELL, J.P., M.P.S., Nutbrook, Exmouth, Devon, passed away at Exeter, on May 1, aged eighty-one. Born in Yeovil, Somerset, Mr. Rowsell served his apprenticeship locally and qualified in 1886. He was first elected to the Council of the Pharmaceutical Society in 1907, and served at various times as chairman of most committees, and terms of office as vice-president and president. In 1944 he retired without seeking re-election, and a resolution was passed at the time by the Exeter Branch of the Society regretting his decision, and placing on record "gratitude for long outstanding and untiring services for the past thirty-six years."

Health Insurance Activities

An original member of the Devon Insurance Committee, Mr. Rowsell was its chairman from 1917 onward, and by 1939 remained the only original member of the Committee. To commemorate the completion of twenty-five years on the Committee, he entertained its members to a luncheon at Exeter on September 13, 1939, a happy precedent established by himself in 1936 when he gave, as chairman, a luncheon to members of the South-western Joint Pricing Bureau. He was also the treasurer and a past-president of the National Association of Insurance Committees. Mr. Rowsell's business interests were mainly in Holman, Ham & Co., Exeter, which he joined first as a manager, later becoming the sole proprietor.

Public Work

An alderman of the Devon County Council, he was three times mayor of Exeter, and at the outbreak of the war became a member of the county Air Raid Precautions Committee. On the occasion of the wedding of the Princess Royal to Viscount Lascelles (now the Earl of Harewood) he presented her with the wedding gift of the City of Exeter. In 1927 he went as a member of a delegation from the Associated British Chambers of Commerce to Virginia, U.S.A., and in 1936 as a member of a delegation to Paris. He was appointed deputy treasurer to the Univer-

sity of the South-west, Exeter, in 1940, became its treasurer in 1943. In the year he became president of the Exeter Chamber of Commerce. He also served as chairman and member of the Exeter Chamber of Commerce and deputy-chairman of the Royal Albert Memorial

Governors. In the

Year Honours list, he was awarded the C

In 1944, Mr. Rowsell became a director of North Devon and Cornwall Junction Railway.

In 1931 he was chairman of the Devon Joint Valuation Committee, from whom he received a presentation

in 1938 for his part in the county's successful struggle for the reclamation of

casuals. A former member of the Devon Voluntary Hospitals Committee

was also for many years president of the Exeter

Western Counties Hospital Aid Society. He was a Justice of the Peace for Exeter and the County of Devon.

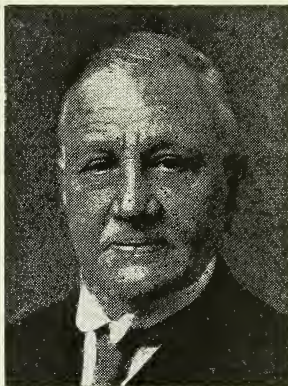
In 1920-21 he was a member of the Profiteering Acts Committee, and served for a period as chairman of Glassware and Alkali Inquiry Committee and vice-chairman of the Committee of Traders. He was a former commissioner of income tax. In politics Mr. Rowsell was a Liberal, and for a time he was president of the Honiton Division Liberal Association.

Mr. Rowsell is survived by his widow, (a member of Exeter City Council), and a married daughter.

Funeral and Memorial Services

At the funeral, on May 4, Mr. S. Evans (Evans, Gadd & Co., Ltd., Exeter) was present to represent the Proprietary Art Trade Association. Holman, Ham & Co., Ltd., were represented by many members of the staff, and the Pharmaceutical Society by Alderman Walter Dea Bridgwater (a member of the Council). Mr. J. Harris (Exeter Branch). Mr. A. Hayward represented the National Pharmaceutical Union and Mr. J. W. Lake South-western Pricing Bureau. Many other local chemists attended the funeral.

Memorial services were held at Exeter Cathedral, and at the Methodist Church, Withycombe Raleigh.



TOPICAL REFLECTIONS

Week's Poll

letter of "Fighting Mac" on the coming election of seven candidates to the Council of the Pharmaceutical Society may be divided into two parts. In part he suggests (for I assume that the "Mac" indicates a male correspondent) that those members of the present who voted for "muzzling" candidates should not receive any of the seven. The reference is, no doubt, to some seven candidates retiring in rotation with no idea which ones. On general principle the addition of fresh blood at every election is desirable, the only occasions being the occasions when they are convinced that no change for the better is possible. So far I go with your correspondent. But when, in the second part of his letter, he proceeds to advocate "muzzling" for a single candidate, I must needs have to differ. The voting papers are sent out for the purpose of filling seven places on the Council of the Society. Then, it is the duty of each elector to choose which seven of the candidates he regards as best fitted to serve for the next three years. To say, in effect, "The candidate marked with a cross is the only one I really want to see elected, and I am content to let the result for the other six" is to take a partial or even a flippant view of the task.

Comments

Apposite remarks were made by members of the recent "Chemistry Brains" Conference sponsored by the London Section of the British Association of Chemists. Speaking of deficiencies in diet, Dr. L. Bacharach said there was no such thing as the average citizen. This holds true of dietetics, as in medicine. "If," Dr. Baker continued, "people were given more money, it would probably come about that there would not be very much wrong with their diet." Looking at the matter from a slightly different angle, I think that an unchanging diet fails to serve its assumed purpose. There is little doubt that many of the inhabitants of this country are under-nourished, not necessarily for lack of calories, proteins or vitamins, but because of the unsatisfying nature of food which lacks flavour and variety. Some people are indifferent to the make-up of their food. Several years ago I heard a medical officer (who should have known better)

upholding the use of imported meat in preference to home-bred flesh. If calories were the be-all and the end-all of nutrition, we could weigh agreed amounts of anything edible and compress them indiscriminately into a few slabs, but I feel I need not pursue this line of thought. Before my space ends I should like to commend the dictum of Mr. Norman Swindin that one of the most difficult achievements is "to interpret an abstruse mathematical or scientific point in common language." We may try, however.

Preparing Films and Lectures

The article headed "Instructional Medical Films" (p. 566) has a wider application than its immediate purpose, and can supply useful hints to the numerous pharmacists and others among your readers who have to address meetings. The author writes: "If you try to cater for a mixed audience, nobody will know where he is; some parts are abstruse to some and elementary to others, and vice versa; the whole film becomes an intellectual morass. . . ." In another sentence Mr. Stanford remarks, rather too generously, that "nobody would prepare a lecture as vaguely as that." Those of us who have been listening to or reading reports of lectures for the greater part of our lives are fully conscious at times of insufficient preparation on the part of a lecturer. Given facts to present, the next step in every case is, I suggest, to visualise the audience that will receive them. In the Science Section of the British Pharmaceutical Conference it is a familiar experience to hear the chairman remark, in opening or closing a discussion, "This is a good Conference paper." The meaning is that nature and mode of presentation of the material are of a type acceptable to a Conference audience. Another sentence in the same article is worth emphasising: "There seems to be a feeling, especially noticeable in America, that the prestige value of a film resides in some sort of way in its length, and that it must be beneath the dignity of a large firm to make a short film; this is not so." For "film" we may read "monograph." And the equipment of a lecturer will be none the worse for an elementary knowledge of voice production. It is recorded somewhere that a university lecturer and tutor, whose voice was not of the strongest, asked his class at the end of a lecture one day if they had heard him clearly. An undergraduate replied: "We overheard you, Mr. Blank."

Xrayser

BIRTH

MATHEWS.—At Shrublands Nursing Home, Croydon, on May 1, Wynne (née Evans) the wife of H. Dennis R. Mathews, M.P.S. (Potter & Clarke, Ltd., London) of a daughter (Jane Elizabeth).

MARRIAGES

SKINNER—TURNER.—At West Norwood, London, S.E.27, on May 4, Eric A. G. Skinner, M.P.S., 197 Anerley Road, London, S.E.20, to Maud P. Turner, 178 Turney Road, London, S.E.21.

TAYLOR—ROSS.—At Newport, Fife, on April 26, William Stewart Taylor, M.P.S., 34 Beaconsfield Place, Aberdeen, to Winifred Margaret Ross, B.Sc., M.B., Ch.B., Kirknewton, Midlothian.

DEATHS

CLAYTON.—On April 20, Mr. John Henry Clayton, M.P.S., whose address in the register is 258 Humberstone Road, Leicester, aged thirty-one.

COULTHART.—At Moat Brae nursing-home recently, after several weeks' serious illness, Mr. William Coulthart, M.P.S., 3 Union Street, Dumfries, aged fifty-eight. Mr. Coulthart had been unable to attend business for some months. A native of Bowhill, Annan, he served his apprenticeship with his uncle, Mr. T. Coulthart, Annan, and removed to Dumfries twenty-four years ago to acquire the business in Union Street. Under his direction the business developed and, when Mr. James Reid, chemist, 124 High Street, retired in 1937, he added that business to his own. Mr. Coulthart was a keen bowler and shot and during the war served with the Special Constabulary. He is survived by his widow and a daughter.

FREEMAN.—Suddenly, at Bournemouth, on May 1, Mr. Henry Samuel Freeman, proprietor of British Medical Products, West Norwood, London, S.E., aged sixty-seven.

NICOL.—At a hospital in Irvine on May 1, Miss Margaret Howat Allan Nicol, M.P.S., 2 Ballochmyle Terrace, Cathrine, Ayrshire. Miss Nicol qualified in 1943.

OWEN.—At Tithe Barn Way, Aldwick Bay, Sussex, on May 4, suddenly, from a heart attack, Mr. William Owen, M.P.S. (chairman, John Tye & Son, Ltd., capsule makers, 457 Caledonian Road, London, N.7), aged sixty-nine. Mr. Owen qualified as a chemist and druggist in 1899.

RUMP.—On April 23, Mr. Frank Rump, Northrepps Road, Cromer, N. Mr. Rump qualified as a chemist and druggist in 1885 and was formerly in business in Market Place, Bungay, Suffolk, with additional businesses at Lowestoft, Norfolk, and Yoxford, Suffolk. He had been living in retirement in Cromer for about fourteen years.

WRIGHT.—On April 22, Mr. James Benjamin Wright, M.P.S., 176 Clarendon Road, Sheffield, aged sixty-four.

WILLS

MR. JAMES WALKER, M.P.S., By Station Road, Ellon, left £5,594.

MR. HENRY MORTIMER, M.P.S. Meadow Road, Leeds, left £2,274, with personalty £1,659.

MR. WILLIAM FREDERICK BILL M.P.S., 7 Collins Avenue, Bispham Blackpool, left £389.

MR. GEORGE WILLIAM WRAY, M.P.S. The Bungalow, York Road, Malton, retired chemist, left £5,782, with personalty £5,339.

PERSONALITIES

ALDERMAN EDWIN THOMPSON has been appointed to represent the Liverpool University and Court of Governors.

MR. HARRY STEINMAN, this year's man of the National Pharmaceutical Union (see *C. & D.*, April 27, p. 526) elected to the N.P.U. Executive in 1941, and is also a director of the Chemists' Mutual Insurance Co., Ltd., and Chemists' Defence Association, a member of the Central N.H.I. Committee, Drug Trade Council and Joint Committee on a National Pharmaceutical Service. He is vice-chairman of the Manchester and Salford Branch of the Pharmaceutical Society and vice-chairman of the Pharmaceutical Committee. Of the branch of the N.P.U., and Manchester Pharmaceutical Association (Manchester Branch), he has twice been chairman.



TRADE NOTES

East Visit.—Mr. George M. Fuerst, managing director of Fuerst Brothers & Co. Ltd., is proceeding shortly by air to India, Malaya and Java.

Attention to P.A.T.A. List.—Dymuth, ODT dusting-powder (insect), 4-oz. tins, 1s., 8s. 3d. doz. (exempt tax). The name of the maker was incorrectly given as "Demuth Ltd.," in last issue (p. 553).

Four-monthly Deliveries from July.—F. & Co., Ltd., 40 Piccadilly, London, announce that, from July, they are giving the present allocation of soap into four-monthly deliveries, instead of six-monthly as previously. They ask that notices not to forward their S.P.3 forms be revised to do so.

Five-day Week.—From May 6, May & Co. Ltd., and Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, are closing on Saturday mornings to give a five-day week to be worked at the factory. At week-ends, urgent supplies of the products of the two companies may be obtained from John Bell & Croyden, or W. H. Martindale, 50 Wigmore Street, London, W.1.

Immunisation Poster.—Chemists are asked by the Ministry of Health, through the Central Office of Information, to display a poster urging parents to have children immunised against diphtheria. The poster is of an attractive design in red, black and white, by a well-known artist, and bears the slogan "Diphtheria is deadly: protect your child by immunisation," with a reference to the chemist at which application should be made. The size of the poster is 14½ in. by 10 in.

Lifting of Imports.—A preliminary announcement is made in this issue that the lifting of a number of French proprietary medicines which have been unavailable since 1940 is to be resumed on a small scale within the next few weeks. The products which are expected by the importers, Wilcox, Jozeau & Co. Ltd., 47 White Lion Street, London, N.1, to be imported are Nativelle digitaline tablets, capsules and ampoules; ouabaine Arnaud capsules, solution and ampoules; Coreine capsules and flakes; Peptalemine dragees; Genatropine granules and capsules and Geneserine granules and capsules.

BUSINESS CHANGES

THE INTERNATIONAL BOTTLE CO., LTD., has removed to 140 Park Lane, London, W.1 (Telephone: Mayfair 6992).

MR. A. H. MUNROE has taken up an appointment with Halex, Ltd., Hale End, London, E.4, as export sales manager.

MR. J. T. LEITCH, M.P.S., has taken over the business of Mr. J. Bryant, M.P.S., 150 Station Road, Westcliff-on-Sea.

MR. A. F. CLARKE, M.P.S., has reopened his pharmacy at 149 Ewell Road, Surbiton, under the management of Mr. Neville David, M.P.S.

MR. G. W. WALKER has been admitted as a partner of P. Samuelson & Co., 17 Creechurch Lane, London, E.C.3. He is in charge of the sale of Nipa products.

MR. A. CORDES, M.P.S., on his release from the Directorate of Medical Supplies, has joined the Anglo-American Pharmaceutical Co., Ltd., Croydon, as production manager.

C. W. FIELD, LTD., essence manufacturers and manufacturing chemists, have removed to new premises at Edwards Lane, Speke, Liverpool 19. (Telephone: Hunt's Cross 1345-47.)

MR. F. J. A. EDWARDS, M.P.S., on his return from service overseas and demobilisation, has taken over the business of Mr. W. Rice, M.P.S., 21 High Street, Leominster, Herefordshire.

H. H. HUFFER & Co., LTD., wholesale and manufacturing chemists, 515 London Road, Thornton Heath, Surrey, have been appointed buying agents in Britain for v/h Brocades-Stheeman & Pharmacia, Amsterdam and Meppal, Holland.

THE SECRETARYSHIP of the Fine Chemical Export Group has been transferred to Mr. H. Barningham, Monsanto Chemicals, Ltd., Victoria Station House, London, S.W.1, to whom all communications concerning this Export Group should be addressed.

REED BROS. (ENGINEERING), LTD., chemical engineers, have occupied new works in Cuba Street, Millwall, London, E.10. Correspondence should continue to be addressed to their City office at Bevis Marks House, London, E.C.3.

LESLIE MARKS & Co., 175A Finchley Road, London, N.W.3, is the title of a partnership that has been formed by Mr. L. C. Marks and Messrs. R. Crystal and B. Da Costa for the purpose of trading in sponges.

COMPANY NEWS

G. F. P. (STAFFORD), LTD. (P.C.).—Capital £1,000. Chemists, etc. Charles P. L. Lloyd, M.P.S., director. R.O.: 11 Grey Friars, Stafford.

ELEANOR ALLAN, LTD. (P.C.).—Capital £2,000. Chemists, druggists, etc. Eleanor Allan and Alan J. Gray, directors. R.O.: 62 Ettrick Grove, Sunderland.

BINNS (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist carried on by the executors of John E. Binns, at 25 Town Hall Street, Sowerby Bridge, as "J. E. Binns." Ida Binns and Sidney R. Binns, M.P.S., directors. R.O.: As above.

OVERSEAS CORPORATION (GREAT BRITAIN), LTD. (P.C.).—Capital £50,000. To promote scientific research and investigation, to test, acquire, dispose of and turn to account scientific, chemical, industrial and other inventions, etc. Solicitors: Lawrance Messer & Co., 16 Coleman Street, London, E.C.2.

NAVANO PREPARATIONS, LTD. (P.C.).—Capital £1,000. To acquire all or part of the business of a foot ointment manufacturer and dealer carried on by Mabel Samuels at 435 Central Drive, Blackpool, as "The Navano Co." Mabel and James Samuels, directors. R.O.: 61 Cookson Street, Blackpool.

R. HAMPSON & Co. (CHEMISTS), LTD. (P.C.).—Capital £9,000. To acquire the business of a chemist and druggist carried on by Donald C. Hampson, at 6 King Street, Pennington, Leigh, Lancs. James R. R. Hampson, M.P.S., Donald C. Hampson, M.P.S., Frank A. Lloyd Parry and G. M. James, directors. R.O.: As above.

DURBIN'S DRUG STORES (WIMBLEDON), LTD. (P.C.).—Capital £4,000. To acquire, as from April 1, the business of chemists, druggists and photographic dealers carried on by Durbin's Drug Stores (Wimbledon), Ltd. (in liquidation), at 12 The Broadway, Wimbledon. Henry C. Davies, M.P.S., and Constance A. J. Davies, directors. R.O.: As above.

BRITTON, MALCOLM & Co., LTD.—Mr. Walter Stamp has been appointed a director, after representing the company in West London for many years.

EVANS MEDICAL SUPPLIES, LTD.—A dividend of 10 per cent. has been declared on the ordinary shares, compared with 8 per cent. for the previous year.

COMING EVENTS

Monday, May 13

ANGLESEY, NORTH CARNARVONSHIRE COLWYN BAY BRANCHES, NATIONAL PHARMACEUTICAL UNION and PHARMACEUTICAL SOCIETY, Council Chambers, Bangor, 7.30 p.m. Annual meeting.

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCHES, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL SOCIETY, Imperial Hotel, Temple Street, Birmingham, at 8 p.m. Annual meetings.

Tuesday, May 14

MANCHESTER PHARMACEUTICAL ASSOCIATION (JUNIOR BRANCH), Lesser Hall, Manchester, Geographical Society, 16 St. Mary's Church, Deansgate, Manchester, at 7.30 p.m. Annual meeting, Dr. Gemmel on "The Scientific Aspect of Crime Investigation."

Wednesday, May 15

PHARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 12 noon. Annual meeting.

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, General Hall, Nottingham, at 7 p.m. Report of delegates to London annual meeting.

BIRMINGHAM AREA, NATIONAL PHARMACEUTICAL UNION, Grand Hotel, Colmore Row, Birmingham, at 3.15 p.m. Birmingham and E.1 District meeting. Mr. G. A. Marshall, M.P.S. (secretary, N.P.U.) on "The N.P.U. Health Service and Other Matters."

Thursday, May 16

BIRKENHEAD PHARMACISTS' ASSOCIATION to Evans Medical Supplies, Ltd., Speke, 7.30 p.m.

MANCHESTER AND SALFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Midland Hotel, Manchester, at 7.45 p.m. Annual meeting. Mr. E. A. Brocklehurst (a member of the Pharmaceutical Society's Council) on "The Future of the N.P.U."

CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 5 p.m. Paper by Mr. R. Robinson on "Strychnine and Brucine. Part XLII: Constitution of the series of Bases and their Oxidation Products" and by C. W. Shoppee on "The Reconstitution of D-homo Androstane Compounds to Steroids of Androstane."

Friday, May 17

BRITISH ASSOCIATION OF CHEMISTS, Central Library, St. Peter's Square, Manchester, at 6 p.m. Professor P. M. S. Blackett, F.R.S., on "Scientific and Social Aspects of the Development of Atomic Energy."

Sunday, May 19

MANCHESTER PHARMACEUTICAL ASSOCIATION, Ramble to Romiley, Marple Vale, Poynton, at 9.20 a.m. Meet at London Road station 9.20 a.m. Book Poynton return.

P.A.T.A. MEMORIES

by E. McMillen

October 1903 I was introduced to Mr. Glyn-Jones by Dr. Symes, a well-known Liverpool pharmacist, at his head shop in Hanover Street, in that city. It was quite a formal introduction. Mr. Glyn-Jones was a Liverpool investigating cases of price-cutting of articles on the Protected List of the P.A.T.A. The doctor, in a semi-serious vein, suggested that I might be asked to join Mr. Glyn-Jones in the work of investigation—I would be pleased to do so, with that we commenced a raid on the big stores, making test purchases. In every case price-cutting was proved. From the P.A.T.A. viewpoint, Liverpool was certainly the "black spot on the Mersey" in those days. I became interested, and in a short time the work of bringing "cutters" to book was tackled in real earnest. Within three months the price-cutting was checked, and the stores involved were brought into line. When the work was completed Mr. Glyn-Jones wired me to call at the offices of the P.A.T.A. and C.D.A., Temple Chambers, London, E.C.).

The "Sherlock Holmes" Side

Why did I think at the time that I would be engaged on the work of investigating and checking price-cutting for over thirty-six years—my active association with the P.A.T.A. I must say that I grew to like the work, although it was so foreign to me. The "Sherlock Holmes" side appealed, and the canvassing for new members was an unusual relief from investigating cases of price-cutting. I owe much to Mr. Johnston in the early days, hepherded me, and when I was "on the road" he would write me so cheerful a tone that I considered his messages almost collateral reading with his letters.

I recall when in St. Helier (Jersey) meeting a chemist named Mutton as a member, I addressed him in French style, and he was pulled up with the reply "My name is 'Mutton', not 'Muttong'." In a small town in Scotland, a chemist whom I had passed seemed so interested in the typed story of benefits reaped by membership of both Associations, that I felt it time to present an application for membership: "No, in the meantime," said he, "I'll tell you what I'll do. I'll give a verra dry preacher at the kirk, and think it o'er in the kirk on Sunday morning."

I did a lot of work in the East End of London, and what a thorn in the flesh were the barrow-men and stall-holders!—price-cutting every P.A.T.A. article they handled. Some of them would stop at nothing to obtain supplies—stolen goods, mushroom firms, copied letter-headings, telephone messages purporting to come from chemists, accommodation addresses, "surplus" stocks, goods consigned to foreign countries re-claimed before shipment, and so on. Some years ago I happened to be in the shop of a wholesale trader in Houndsditch when his private car, containing several cartons of a well-known perfume, vanished from outside his shop door. It was eventually found abandoned minus the perfume.

How Supplies were Obtained

Some years ago a "mushroom" firm commenced "business" in a rather grand style in the West End of London. I received a telephone message from the chief rogue asking me to give him a call. He was very plausible when asking for my "help and guidance," for which he offered a "refresher." As a result of my report, manufacturers and wholesalers were warned about this firm, who were very soon traced as a source of supply to cutters. Within six months the bubble burst—bank balance, £2 8s. 6d.! The accommodation address was a ramp and—a pity to have to record it—some chemists and representatives acting in collusion were involved. This considerably handicapped the P.A.T.A. in checking some price-cutters. It has been acknowledged that coding has been the great means of tracing sources of supply, and this is known to the cutters. What trouble they went to in tracing private codes! I have seen a wholesale trader in the East End—over whom a cloud of suspicion hung—examining a box of powder through a magnifying glass, trying to trace private codes. Imagine his surprise when on raising his head he found that I was waiting for an interview! In Peckham was an inveterate cutter who was causing much annoyance to the local chemists, and worry to the Association. This trader managed to discover private codes, which he mutilated or removed. He was, however, tracked down by means of double coding. Other means of tracing sources of supply were by observation and investigation, on the details of which it would be unwise to dilate.

PENICILLIN IN PLENTY—BUT ON PRESCRIPTION

Supply Minister announces that the drug is to be "widely available on public sale at a doctor's prescription," but with no present free sale (as wrongly announced recently in a daily newspaper) of penicillin lozenges and ointment

FLANKED by Sir Cecil Weir (in charge of penicillin production, Ministry of Supply) and Sir Alexander Fleming (its discoverer), and supported by Sir Howard Florey, Sir Percival Hartley, Mr. Arthur Mortimer (a former chairman of the General Penicillin Committee) and experts from the department, the Minister of Supply (Mr. John Wilmot) announced on May 1 that penicillin is to be made much more widely available to the public. Supplies have been increasing with gratifying rapidity in recent weeks: target figures have been exceeded, and it is hoped that by June 1 supplies will be sufficient for general release through chemists and even for export, with a hint of possible veterinary developments. The penicillin and preparations will be "widely available on public sale against doctor's prescription," and at controlled prices.

War-time Production Methods

Until September 1942, penicillin was exclusively a laboratory product, but when clinical trials demonstrated its extraordinary effectiveness in certain conditions, the Ministry of Supply gave instructions that the possibilities of factory production should be investigated. Arrangements were made for a continuous exchange of information between scientists and producers, and for collaboration with the United States, to secure the production of the largest quantity of penicillin in the shortest space of time. At that time the most certain method of obtaining penicillin quickly was by surface culture. In the United Kingdom, where resources were heavily strained by other urgent war requirements, attention was therefore at that time concentrated on this method. During 1943-44, pilot plants were developed by Allen & Hanburys, Ltd., Boots Pure Drug Co., Ltd., The British Drug Houses, Ltd., Glaxo Laboratories, Ltd., Kemball, Bishop & Co., Ltd., Imperial Chemical Industries, Ltd., and The Wellcome Foundation, Ltd. Plants for commercial construction were installed by Allen & Hanburys, Ltd., at Ware, Herts, Boots Pure Drug Co., Ltd., at Nottingham, Glaxo Laboratories, Ltd., at Aylesbury, Watford and Stratford; Imperial Chemical Industries, Ltd., at Trafford Park, Manchester; and The Wellcome Foundation, Ltd., at Beckenham, Kent.

Change to Deep-culture Methods

In the United States, experiments carried out into production by subculture in tanks of several thousand gallons capacity. Close touch with this development was maintained by the British authorities and, at a fairly early date, when success of deep-culture production appeared assured, construction was started of factories to operate the process. This was at Speke (wholly owned by the Ministry of Supply, but run by the Distillers Ltd., as its agents), and the second at Barnard Castle (first planned as a surface culture factory, subsequently adapted to deep culture, and operated by Glaxo Laboratories, Ltd., on their own plant in Government premises). The two factories are in full swing, under the management of firms concerned, and although they have only been producing for a few months are already exceeding their target output. The Ministry claims that these plants bear favourable comparison in quality and scale of their production with any production units anywhere else in the world. The new method supersedes surface culture, the plants operating the outmoded process are consequently being closed down and adapted to deep-culture methods. Experiment is proceeding continuously to produce the drug synthetically, but at present without success.

Costs of Development

Expenditure on premises and plant in the United Kingdom has been in the neighbourhood of £3 millions, of which more than £2 millions has been Government expenditure. In the United States it is understood to have been about twice as much. Until now, the entire British output has been purchased by the Government and distributed in accordance with official allocations. Average monthly production of penicillin in 1943 was 300 mega units (300 million international units), in 1944 3,166 mega units, and in 1945 26,000 mega units. By March and April 1946 figures had become respectively 17 mega units and over 260,000 mega units. Further large advances in output are in prospect. Increased output has involved no sacrifice of quality, and the purity and potency of the British product compare

with those of other countries. The quantity required under the Therapeutic Substances Act (formerly 150 units per mgm. and recently raised to 300 units per mgm.) has been so far exceeded that a part of the present production is well in excess of 1,000 units per mgm., and this at no extra cost. Treatment by the purer product is regarded as more comfortable to the patient.

Brought Down

An increased output there has been a reduction in cost, and the expected cost of a unit of penicillin, as available to the public within the next few weeks, will be less than formerly. It cost in £'s; in fact, will be so low as to ensure a ready sale for the British product in overseas markets. In the distribution arrangements, manufacturers who might have taken part in the production process but who, for national reasons, had been kept during the war on other work will, it is understood, take part in distribution.

The Minister concluded his statement at the conference by remarking "The production of penicillin has been a happy example of co-operation between Government, science and industry. There is and will continue to be so long as may be necessary a control of price and an allocation of production, but there is no interference with technical and administrative control of production units."

New Strains of Penicillin

Additional information of importance was given in response to questions put to the Minister. The experts knew nothing of an American "new-type" penicillin stated not to require refrigeration in storage. The development of penicillin-resistant organisms, although not confirmed since their existence has been previously suggested, was still regarded as a possibility. In part, the expansion of production had been the result of developing new strains of the drug. Two or three manufacturers had declared their intention of producing other antibiotics (e.g. streptomycin) when practical.

A number of questions as to export possibilities for British penicillin were left unanswered owing to the absence from the conference of any representative of the Ministry of Trade.

Preparations for oral use are not necessarily available from June 1. When they are they will be supplied, like penicillin injections, on prescription only.

Distributors by Wholesale

When approached for the names of the manufacturers who, engaged on other work during the war, would take part in the chain of distribution, the Ministry of Supply was not in a position to give details, but stated that the matter was under negotiation with the Wholesale Drug Trade Association. From the W.T.D.A. it is understood that distribution will in due course be open to any trade wholesaler. Distributors who are members of the Association are Allen & Hanburys, Ltd., The British Drug Houses, Ltd., Burroughs Wellcome & Co., Glaxo Laboratories, Ltd., Imperial Chemical (Pharmaceuticals), Ltd., and Pharmaceutical Specialities (May & Baker, Ltd.).

DISCUSSION ON PENICILLIN PRODUCTION

PURE penicillin in the dry state was quite stable and remained unchanged after several hours of heating at 100°C., said Dr. E. LESTER-SMITH (in charge of penicillin research at Greenford for Glaxo Laboratories, Ltd.) in a lecture on penicillin at a meeting of the Society of Chemical Industry in London on May 6. He was of the opinion that commercial synthesis of penicillin would never compete with the submerged culture process of manufacture. Crystalline penicillin sodium salt had been supplied by his own laboratories for the British working standard which had recently been adopted. In the discussion which followed the lecture Dr. COPE (The Wellcome Foundation, Ltd.) mentioned that plans for patenting a process for adsorbing penicillin, developed by his laboratories, had been discontinued. MR. J. PINDER thought that the production of penicillin in Britain, though comparatively small up to the present, had reached a high degree of efficiency in spite of often most adverse and make-shift conditions. MR. A. L. BACHARACH mentioned that the action of penicillin appeared to be completely different from that of the sulphonamides, and that there was practically no evidence that susceptible organisms could become penicillin-resistant.

"Bootleg" Streptomycin.—A report printed in the "American Column" of the "Daily Express" recently attributed the recovery of a fourteen-year-old girl from bacterial endocarditis to "bootleg" streptomycin obtained in the "black market." The official price was stated to be £6 5s. per million units, and the price demanded for the sample was £37 10s.

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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VOL XLV MAY 11, 1946 NO. 3457

Problems of the Penicillin Programme

For available details are given in this issue (p. 594) of the new penicillin distribution policy announced by the Minister of Health. Many of the practical details which pharmacists are concerned have not yet been disclosed, and the policy involves at least one important implication that has come under the closest scrutiny by the profession and the public.

The Ministry is relinquishing its monopoly of distribution, and pharmacists will be able from June 1 to order penicillin in certain quantities (a) from the actual manufacturers, (b) from other manufacturing chemists for national reasons, had to be kept during the war on other work," and (c) probably from wholesalers. What those quantities are to be has still largely to be made known. Supplies are only to be passed on to the public on the authority of a doctor's prescription. To implement that decision will demand some new measure of control—possibly either a general or an individual licence—and some form of licensing or inspection. Otherwise, anything may happen to the penicillin after it leaves the manufacturer's hands, and conditions of distribution favourable to the establishment of a "black market" in penicillin may be difficult to avoid, even when the most circumspect supply from the original source.

The decision to restrict distribution to prescribed penicillin appears based on (a)

the possibility of creating penicillin-resistant strains by indiscriminate use, and (b) the fear that unsuccessful self-medication for unsuitable purposes may bring the substance into all-round disrepute. The second reason is valid, though perhaps hardly sufficient justification for treating the most innocuous of medical discoveries as if it were a deadly poison or habit-forming narcotic. Little evidence of penicillin resistance has been forthcoming, and the most expert observation indicates that, should it occur, it is amenable to increased doses of the drug itself.

Until the machinery of control is made known, and some experience has been gained of its effectiveness or otherwise, it would be unwise to be dogmatic, but vigilance is needed to ensure that penicillin controls do not become the precedent for medical "monopolies" of other harmless drugs.

Prosperity Campaign

THE prosperity of this country during the next few years depends to a considerable degree on the ability of everyone in industry to increase their efforts so that output may be raised to unprecedented levels. The demands of the export trade, necessary repairs, the Armed Forces and industry generally, can be met by the available man-power only by harder work and increased efficiency in all branches of the national effort. With a view to stimulating production the Government has followed up the Prime Minister's recent broadcast appeal by a series of meetings between employers and workpeople at which the facts of the present economic situation were explained to both sides. An excellent response is reported, it being recognised that the problem of production under prevailing conditions was a common one affecting the welfare of the community as a whole. It is understood that a considerable poster campaign calling public attention to the need for increased effort and efficiency is in course of preparation. Films, broadcasts, leaflets, booklets, etc., are among the media also to be used. In this connexion it is assumed that chemists, if they wish, will have the opportunity of displaying publicity material.

BIRTH OF AN INDUSTRY

Surface production of penicillin is officially ended—ousted by "deep culture." The method is essentially a brewing process, and not surprisingly the Distillers' Co., Ltd. has entered the production field. Much more remarkable, perhaps, is the act of faith Glaxo Laboratories, Ltd., in creating a special Fermentation Division to operate the only other British production unit: the installation at Barnard Castle now in quantity production. The plant was visited by a member of the "C. & D." editorial staff on

In the period 1941-44, Glaxo Laboratories, Ltd., produced at their four penicillin plants 90 per cent. of the entire British output of penicillin. That, however, was by surface-culture, the end of which, so far as manufacture is concerned, has been announced by the Minister of Supply. Having taken the bold decision to switch over to the deep-culture technique elaborated at Peoria, U.S.A. by Dr. Coghill, the company formed a special Fermentation Division and pressed forward at once with the construction of the plant at Barnard Castle in Tees-side, co. Durham.

After seven months' intensive preparation and construction, with wholly British plant and materials, the installation is now in quantity (though far from total) production. Ministry of Supply output figures are given on another page, but they include the output from Speke. Individual production figures of the two units are not disclosed, but it may be stated that penicillin-Glaxo contributes the greater proportion of the total.

100 per cent. Penicillin

Even more important than current output, however, since figures are mounting rapidly from week to week and the limit is not in sight, is the quality of the product and the promise it holds for the future. Standard penicillin-Glaxo, as now supplied, is probably the purest commercially-available material in the world, and about four times as pure as it is required to be under the Therapeutic Substances Act. Penicillin 100 per cent. has been produced as a snow-white powder (advance specimen illustrated on p. 594), and this is available, not as a laboratory curiosity, but in practical quantities to meet special medical requirements. For most purposes the standard product (about 80 per cent. pure) is more than adequate, and the high cost of achieving absolute purity may render the commercial development of the 100 per cent. material an unnecessary luxury. Standard penicillin is stable under normal storage conditions (i.e., without refrigeration).

The forms in which penicillin will be supplied to pharmacists from June 1 have

yet to be announced. At present the product is issued in vials containing 100,000 units of sodium salt and adapted to receive 10 c.c. of sterile water to make an injection solution.

A Non-toxic Pharmaceutical

How and why is the new process so much more productive than the old? The principles of penicillin production are well understood by pharmacists. Essentially the process consists in growing a mould for the sake of a by-product. The unique feature of the particular by-product penicillin is that it is the first effective antibacterial agent to be discovered that has virtually no toxicity.

When the action of penicillin was first investigated it was considered to be bacteriostatic, to stop certain germs growing and multiplying, while not actually killing them. In doing this, the drug enabled the body to rally its defences against the invasion, which was in check, unable to overrun the defences. Later, when larger supplies of the drug were available, it was discovered that while in small doses its effect was limited to bacteriostasis, with larger doses the germs were definitely killed. In treating today there are thus two possible methods of attack on the disease—the first to establish in the blood stream a bacteriostatic level of penicillin for several days, giving the body time to overcome infection with its own resources; second, to give a large germ-killing dose once. When the infection is new and deeply rooted the second method is usually best. In gonorrhoea, for instance, a dosage of 200,000 units immediately and quickly give excellent results; but such tactics are not always desirable, especially in dealing with certain chronic infections, a series of lower doses may be preferable.

The way in which penicillin interacts with susceptible bacteria is still debated for the chemical structure of the drug is only recently been determined with certainty. It seems, however, that to some extent penicillin has what is termed

"locking" action. When some par-chemical is essential to the growth of a cell, another chemical of sufficiently structure, but no growth-value, may be "muscle in" ahead of the useful one, blocking its entry.

Details

A mould requires for its development a certain temperature, a nutrient medium, and space. The Barnard Castle installation was planned to provide those essentials at a precise point, in place and time, at which they are needed. The food consists of a specially devised brew of corn-steep (a rich, proteinaceous by-product of the British starch industry) modified by the addition of sugar and simple salts such as sulphates and phosphates. The mould's workplace or nursery is one tank in a battery of 5,000-gall. vertical fermenters, each about 25 ft. high. From these the product takes its name and from them comes the prolific output. By the old method, it will be recalled, it was necessary to cultivate the mould on the surface of a nutrient in a comparatively small container, and output was only increased by multiplying the number of containers. At the period of peak production the number of flasks used in the Watford factory of Messrs. Glaxo was 300,000. The practical difficulties of handling so many containers of vulnerable material are obvious, and the total output appears puny by comparison with the improved material obtained from a single charge of the new enter tanks, in which the mould multiplies not on the surface but immersed in the nutrient medium.

The details of Barnard Castle technique can only be briefly outlined. Into the enter tanks goes first the nutrient medium, then water, the two being mechanically mixed into a homogeneous solution. At this stage, many organisms are present which, though not necessarily pathogenic, are antagonistic to, and would destroy, the penicillin. The medium is therefore sterilized—a process effected by injecting steam at an appropriate time. Before the "inoculum" of mould (prepared in another part of the works) is added, the medium is cooled to room temperature, and filtered through a cloth blown through the solution. After a few days in the fermenter the mould has reached its optimum development, and the contents of the tank are removed as a thick sludge, and filtered upon a rotating-drum filter. The filtered-out mould, a putty-colored carpet, is dealt with as waste.

Extraction of the Drug

The penicillin is contained in the liquor that remains. From storage vessels this is, at the next stage, piped through to an extraction "train" of six Laval separators, in which ingenious use is made of the ability of certain solvents to take up the compound, which passes successively into layers of amyl acetate, an undisclosed buffer solution, chloroform, and aqueous alkali, emerging as calcium or sodium penicillin ready for freeze-drying. A description of the remainder of the process has been given (*C. & D.*, 1945. II. 322).

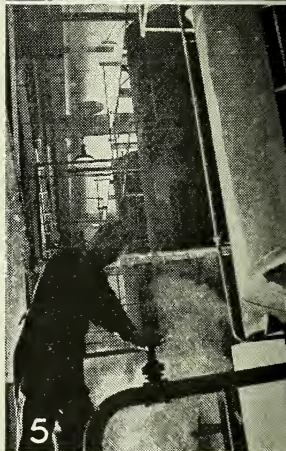
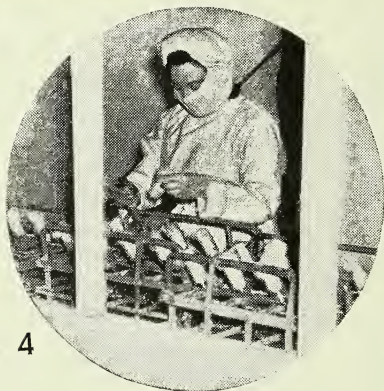
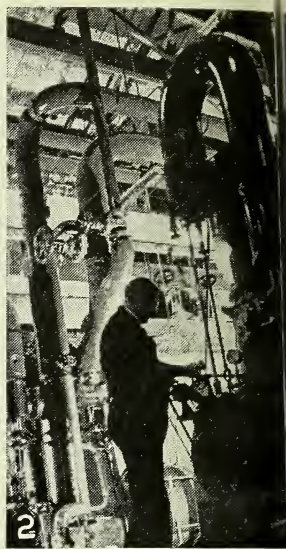
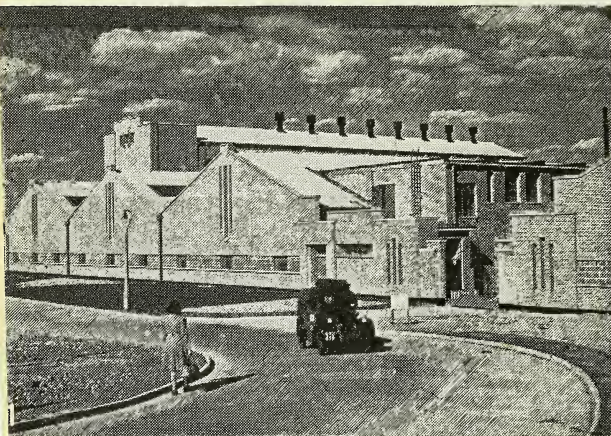
For production of the "inoculum," the company's own strain of *Penicillium* (not *notatum*) is incubated and developed in the laboratories. In a fourteen-days' cycle a speck implanted on a Petri dish is made to surrender some two tons of material. Research workers in the mycological laboratories, who are under Mr. R. Forbes-Jones, Ph.D., work continuously upon new strains and upon different antibiotics. Tests for potency are carried out biologically, potency factors being ascribed by a simple technique in which two specimens of known potency and three of the uncalibrated material are implanted on a medium infected with *Staphylococcus aureus*. Conflict in development between the two organisms gives rise to rings from whose size, in comparison with the standard, a potency factor is calculated.

A Triumph of Enterprise

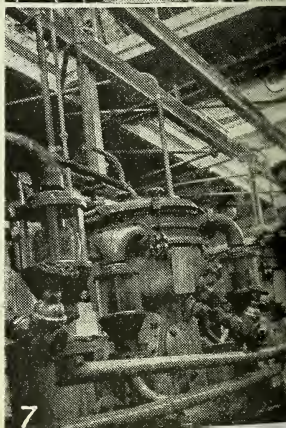
That so much penicillin, of such outstanding purity, has been produced in so short a space of time is due to the vision and daring of a pharmacist (Mr. Harry Jephcott, Ph.C., chairman and managing director of the company) in deciding to abandon the old technique in favour of the new, allied to the profound knowledge and flair for applying it of an eminent microbiologist (Mr. A. H. Campbell, Ph.D., for twelve years Professor of Microbiology at Bristol University).

To see, at Barnard Castle, penicillin produced from natural material at such relatively low cost is to place in its true perspective the rumoured production of penicillin by synthetic means. It is also to have the imagination fired. Ferments are of many kinds, and when the technique of fermentation has once been mastered on this bulk scale, who can predict what other benign chemicals may not be made freely available to mankind? A new industry has been born, and one which offers an opportunity for British pre-eminence.

PENICILLIN

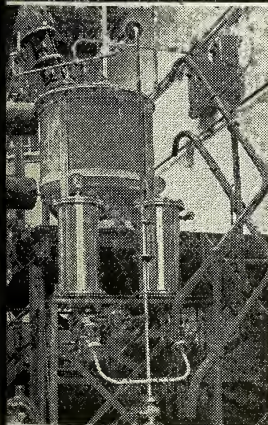
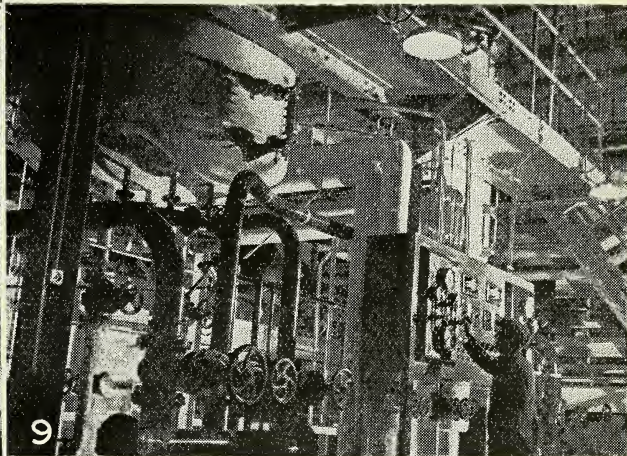


1. General view of the installation.
2. Power-house : Chemical engineering is crucial in the production problem.
3. Life-lines from the power-house carry heat and steam and purified air for culture of the mould.
4. Preparations for the initial germination, prior to admission of the mould to the fermenter tanks.
5. Deep culture : Immersed in 25-ft. deep 500-gall. fermenter tanks (replacing the innumerable glass flasks of outmoded surface process) the mould feeds and multiplies upon the nutrient medium.



DEEP CULTURE

The process
in operation
at the installation of
Glaxo Laboratories, Ltd.,
Barnard Castle,
Co. Durham



6. Valves at the 12-ft. level provide the means of controlling the fermentation process.
7. After the mould is filtered out, the mother liquor passes to the extraction train of separators.
8. A final stage in the extraction process.
9. Low-temperature absorption refrigeration plant for the drying process.

PENICILLIN PACKS AND A DISPENSING SCREEN

MANUFACTURERS from whom chemists will be able to order supplies of penicillin preparations include Allen & Hanburys, Ltd., Boots Pure Drug Co., Ltd., The

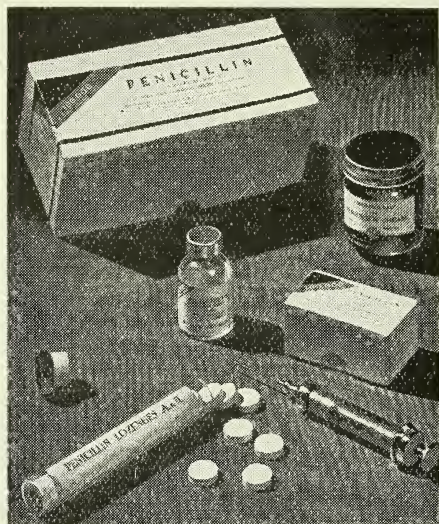
British Drug Houses, Ltd., Burr Wellcome & Co. (The Wellcome Foundation, Ltd.), Glaxo Laboratories, Kemball, Bishop & Co., Ltd., Pharmaceutical Specialities (May & Baker), and possibly the Distillers' Co., Ltd. some of them advance notice has received of the forms and packings will be available when distribution mences on June 1 or thereabouts.

ALLEN & HANBURY, LTD., London, will supply penicillin (sodium salt) containing 100,000 i.u. for injection, in tons containing ten vials; and as pen (calcium salt) lozenges (each contain i.u.) in bottles of fifty. Details of a range of pharmaceutical products to be issued by the company will be issued shortly. The company's retail establishment at 7, Street, London, W.1, is licensed under the Therapeutic Substances Act and will operate a twenty-four hour dispensing service for the convenience of chemists, hospitals and doctors requiring emergency preparations.

BOOTS PURE DRUG CO., LTD., Nottingham, are issuing penicillin (sodium salt) in ampoules for injection in the following strengths: 100,000 i.u. (illustrated), 200,000, 500,000 and 1,000,000 i.u. as penicillin (calcium salt) lozenges, 500 i.u. per lozenge, in bottles of fifty; sterile suspension for injection of penicillin (calcium salt) in ethyl oleate with beeswax rubber-capped vials containing 125,000 i.u. per c.c. in 10-c.c. and 20-c.c. vials; penicillin (calcium salt) ointment in collapsible tubes containing 1 oz. (1,000 i.u. per gm. in paraffin base); penicillin (calcium salt) eye ointment, in 1-dram tubes (1,000 i.u. per gm. in paraffin base) and sterile powder of penicillin (calcium salt) with sulphathiazole for external use (5,000 i.u. per gm.) in bottles of 15 gm.

THE BRITISH DRUG HOUSES, LTD., London, N.1, are issuing penicillin (sodium salt) in vials containing 100,000 i.u. for injection; as penicillin in oil (50,000 i.u. per c.c.) in containers of 10 c.c.; penicillin (calcium salt) lozenges (each containing 500 i.u.) in bottles of fifty; and penicillin ointment (1,000 i.u. per gm.) in jars of 1 oz. All are illustrated.

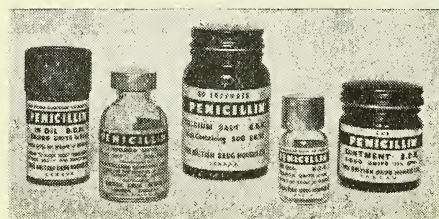
GLAXO LABORATORIES, LTD., Greenford, are concentrating for the time being on producing adequate supplies of penicillin (sodium salt) in vials for purposes of injection, strengths: 100,000 i.u. (illustrated), 200,000, 500,000 and 1,000,000



Allen & Hanburys, Ltd.



Glaxo Laboratories, Ltd. Boots Pure Drug Co., Ltd.

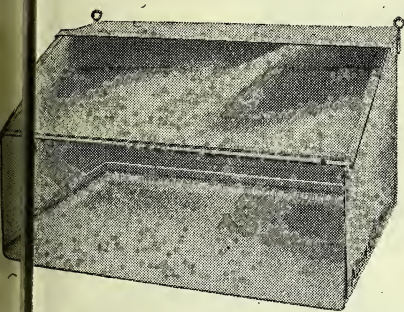


The British Drug Houses, Ltd.

At a later date penicillin lozenges, and other presentations are to be available. Penicillin-Glaxo, 100 per cent (also illustrated) is available for medical purposes only, and is not among the presentations for distribution on June 1.

Pharmaceutical Specialities (May & Co.), LTD., Dagenham, were one of the initial distributors of penicillin now made under the auspices of the Ministry of Supply. On June 1 they will be available for supply through chemists, containing 1,000,000 i.u.

Distribution programmes of other manufacturers have not yet been made known.



Dispensing screen available from Allen & Hanburys, Ltd., London

penicillin dispensing-screen (illustrated) is available from Allen & Hanburys, Ltd., London, E.C.1. The screen is of white enameled metal, with sloping glass panel, and is capable of being folded.

MEDICAL ABSTRACTS

Superiority of Emulsified Vaccines.—Only a threefold increase in antibody response, and a significant prolongation of the period of effective immunity, were produced in human beings when influenza vaccine was injected as an emulsion instead of as the usual saline suspension ("Journal of the American Medical Association," March 23, pp. 789-90). Experiments with vaccines of killed *Shigella paradysenteriae* bacilli on mice show that the emulsified produces up to a thirtyfold increase in antibody response over the saline control, and on rabbits the period of effective immunity is extended sevenfold. The suspension of killed bacteria was emulsified by means of a preparation of liquid paraffin and a stabilising agent derived from gelatin.

New Rodenticides.—Alpha naphthylthiourea, Antu, is a rodenticide similar in action to red squill ("American Journal of Pharmacy," January, p. 17). It is a slow poison specific for rats, and is lethal to brown rats only, which die from oedema of the lungs. It is less effective against black and roof rats, and mice, and is not lethal to rabbits, chickens, dogs, or cats. Sufficient poisoned bait must be laid to kill all rats in the infested building because rats which have eaten a sub-lethal dose either avoid the poison in future or develop a resistance to it. Another new synthetic rodenticide called "1080," is a derivative of fluoracetic acid, and is lethal to all rodents, many other animals, and to human beings. Warehouses, etc., which can be shut off from domestic animals and human beings are suitable for its use, but as the poison's action is fast there is the danger of the rats dying in inaccessible parts of the building.

Developments in Streptomycin.—The possible great value of streptomycin in urinary infections and in coliform septicaemias is mentioned in the "Lancet" (March 30, p. 492). While streptomycin has been exploited chiefly in infections due to bacteria insusceptible to penicillin, its use in typhoid fever has not met with great success; slightly more encouraging results have been obtained, however, in the treatment of undulant fever, and bronchiectasis (where the drug was administered in part by inhalation). The drug as used now in the U.S.A. is of varying degrees of purity. Weight for weight it appears to be less active than penicillin, and in addition the unit of activity is much smaller, so that the ordinary daily dose runs well into seven figures. When given orally, very little of the drug is absorbed, but its activity is retained, and the drug appears in high concentration in the faeces. For systemic effect streptomycin can be given subcutaneously, intramuscularly, or intravenously; and as it is excreted by the kidneys more slowly than penicillin injections every six hours suffice to maintain an adequate blood level. No serious toxic effects have been noticed, but pain on injection and other symptoms may be attributable to impurities.

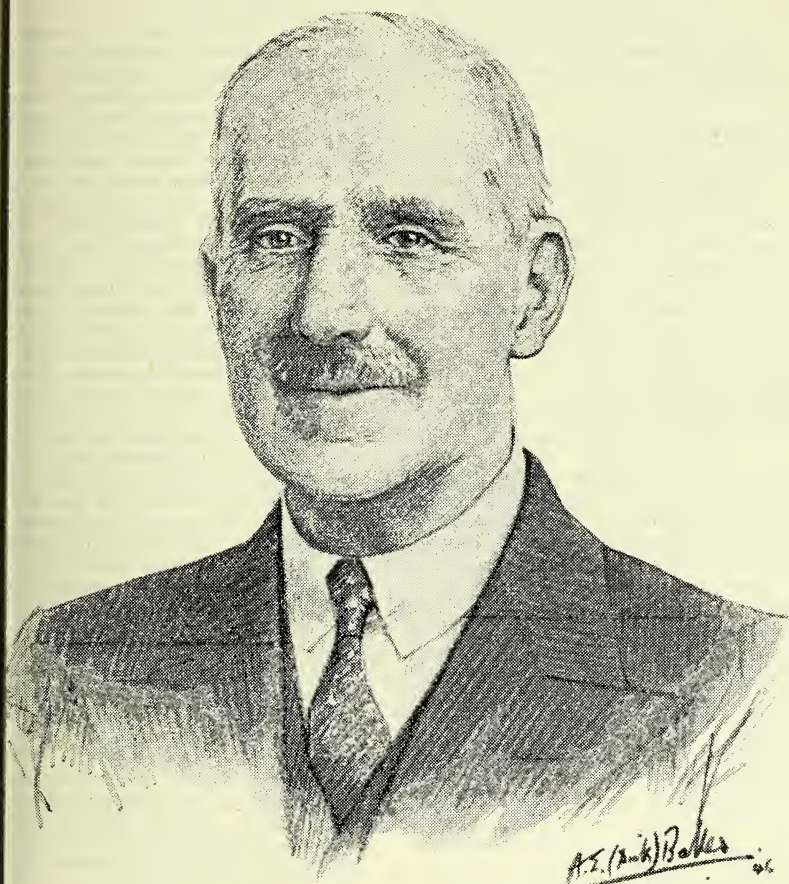
The Leicester "Tonic."—Wit, sometimes racy, news, and comic illustrations combine to make the twelfth annual edition of the "Tonic," recently received, a worthy descendant in the line of journalistic products of students of the Leicester School of Pharmacy.

CHIEF OFFICIALS OF DRUG AND PHARMACEUTICAL ORGANISATIONS



Mr. JAMES J. R. KERR, P.C., M.P.S.I.
Registrar, Pharmaceutical Society of Ireland

CHIEF OFFICIALS OF DRUG AND PHARMACEUTICAL ORGANISATIONS



Mr. ROBERT J. KIDNEY, F.S.A.A.
Secretary, Irish Drug Association

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society of Great Britain was held in London on April 30 and May 1, the president (Mr. J. C. Young) in the chair.

THE PRESIDENT explained the absence of the secretary (Mr. H. N. Linstead) as due to his being a member of a Parliamentary mission to the Continent. An Order of the Privy Council, reappointing Professor W. J. Dilling and nominating Dr. James Alfred Giles to membership of the Society's Council, was received.

New Member Welcomed

Extending a warm welcome to Dr. Giles, THE PRESIDENT said that he was joining them as successor to Sir Malcolm Delevingne, and, like him, came from the Home Office. He was no stranger to the Society, having paid many visits to 17 Bloomsbury Square during the past twenty years in connexion with the pharmacological laboratories. DR. GILES, expressing his thanks, said he was retiring soon from the Home Office. He was glad to have been sent to the Council, because it would give him an opportunity of usefully employing his retirement.

MR. L. MORETON PARRY said that he had received word that their old friend and colleague for many years on the Council, Mr. P. F. Rowsell, was very ill. The Council agreed that a letter of sympathy and hope for his recovery be sent to Mr. Rowsell. (The death of Mr. Rowsell has since been announced, see p. 580.)

A letter was received from Sir Malcolm Delevingne, thanking the Council for the tribute paid to him in a resolution on his retirement from membership, and for expressions of regret he had received from individual members. The Council elected as Honorary Members of the Society Sir Malcolm Delevingne and Sir Walter Langdon Brown, both of whom were formerly members of the Society's Council as nominees of the Privy Council.

Convalescent Home

THE PRESIDENT gave an account of the opening on April 28 of Birdsgrove House, Ashbourne, Derbyshire, as a convalescent home for pharmacists (*C. & D.*, May 4, p. 558). It had been a happy occasion, he said, and among the two or three hundred people who had attended there was nothing but praise for the new venture. One association represented there had promised a piano as a contribution to the equipment of the home. There could be no better advertise-

ment for Birdsgrove House than for members to go and see it. The credit suggestion of using the premises in that way went to the Society's treasurer (Mr. H. C. Shaw), and it was hoped the home, now well started on an elemental basis, would develop into a permanent undertaking.

MR. J. F. MCNEAL (chairman of the Benevolent Fund Committee) said in response to questions, that a pamphlet about the home was now ready. Persons entitled to use the home were, primarily, members of the Society, and, subject to accommodation being available, wives of members. He hoped that children would not be included in applications at present, because of the expected heavy demand from members themselves. A fortnight was proposed as the normal period of stay. On behalf of the Committee he thanked the president for the trouble he had taken to make the opening ceremony successful. MR. H. C. SHAW also expressed appreciation of the arrangements made to receive the visitors.

Later in the meeting, THE TREASURER said Birdsgrove House represented a broadening of outlook in the Society's benevolence to cover service. Even to-day people could be destitute of some kind, and for this one a "needs test" gave place to a "needs test." The home was available to all at a nominal rate just sufficient to cover food. It was not proposed to ask for more, for it was felt that appreciation would be such that only would the Benevolent Fund do better than of late, but either a small home or an enlargement of this one would be needed. The two priorities would be need and membership, and with a capacity of 250 visitors a year (2,500 in ten years) there would be created within the Society much goodwill. He hoped that members rich and poor, would make full use of the home. Dr. Young was appointed member of a subcommittee of the Benevolent Fund Committee dealing with the administration of the Home.

Finance Committee

The report of the Finance Committee presented by THE TREASURER, recommended approval of the action of the secretary in making payments amounting to £3,388, and of the treasurer in payments amounting to £15,350. The trustees of the Pharmaceutical Trust requested to reimburse the Society the

£84 (amount of education salaries for 1945). It was also recommended that should be invested in 3 per cent. Government Bonds, fourth issue, on Benevolent Donation Account. The recommendations were adopted.

THE TREASURER moved that the Financial statement for 1945 should be approved and that a summary of it should be published in the "Pharmaceutical Journal." He hoped to give details of the statement in a forthcoming issue.] In his address MR. HAW mentioned that the expenses of the college had practically doubled in the last five years, and were up by £2,897 in the 1944 figure. "In this age of public utilities" provided educational facilities for the Council might consider the matter or otherwise of continuing the same." Registration of students and examination fees were both down, though increases are not large. On publications there was an adverse swing of about £3,000, due to reduced sales of the Extra Pharmaceutical. One must, however, take more of a yearly outlook, and he was satisfied on its present businesslike basis they could look forward to its being a good producing department.

On the assumption that the total cost of a new building would be about £500,000, the present was one-quarter to one-third still to be done. Perhaps the Council would consider a non-recurring personal retention fee, and to, say, ten per cent. of the membership, and only if the tax was recoverable, thought it would be, though possibly over five years. That would be another way of helping to finance the new building. In answer to MR. HESELTINE, the TREASURER said that the term "non-retention fee" which he had used was another form of "life membership."

Suggested Cruising Conference

Running through the accounts throughout the war there had been a small figure for the Pharmaceutical Conference, and it had struck him that there were Branches which, through lack of size and accommodation, had not been able to attend a Conference. He wondered whether, collectively, they might like to run a Cruising Conference, lasting, say, ten days, on the Norwegian fjords or Northern Isles. Such a Conference would outshine any other and give immense pleasure to the members in working for it.

A mention was called by MR. C. DAVIS to comments in the London Press, in connection with a case of chloral poisoning, to

the effect that the metric system would have been adopted in this country long ago but for the opposition of pharmacists. His own experience of metric, he said, was that mistakes were often made with percentages when it was used. MR. F. C. WILSON said that the fault lay not in the system, but in allowing the handling of dangerous substances in hospitals by persons not competent to handle them.

Pharmaceutical View on Metric System

MR. F. G. WELLS mentioned that he had been consulted by a Press representative in connexion with the case referred to, and as a result an explanation of the pharmacist's point of view had been published in that paper. He had told the reporter that, judging by the report of the case in the newspapers, the mistake was made by an unqualified person, and was not due to the system used. It did not matter to pharmacists which system they used, but there must be proper supervision. Pharmacists were as well acquainted with the one as the other, and if pharmacists had been in charge there would have been no trouble, but while unqualified persons were allowed to dispense in hospitals these mistakes would continue to occur.

Shortage of Pharmacists

A long discussion arose in the Council on the question, raised by MR. HESELTINE, of the scarcity of qualified men in pharmacy and the calling-up of apprentices for military service. MR. Heseltine said that many businesses were so short-staffed that if a man was called up the shop closed. There were cases of hardship up and down the country. Moreover, releases from the Army were often offset by the departure of older men who had been waiting to retire. He contended that pharmaceutical apprentices should be allowed to complete their studies and to qualify, as were medical students. He was informed that pharmacists in the Royal Army Medical Corps could not be released under Class B.

THE PRESIDENT remarked that many who came out of the Forces did not want to return to pharmacy. THE VICE-PRESIDENT said that there were many thousands of men in the Services who had not been able to complete their education, and they should be considered before those who had not done any military service. Their early demobilisation depended on the numbers going in. On the question of releases, he said that pharmacists, having been reserved for years, were in the later groups. It was

unreasonable to expect men who were nearing the time of release under Class A to agree to come out under Class B and thus lose their demobilisation leave. The Ministry of Labour, he added, was satisfied that there were enough qualified persons in the country to do dispensing for the nation if they were engaged on pharmaceutical work alone. That, however, was not his own view.

MR. TRISTRAM said that the question of apprentices was a matter for the Society, and not only for the Central Pharmaceutical War Committee. The trouble was that young people whose apprenticeship was interfered with ran the risk of being unable to continue their studies when there had been a break.

MR. DAVIS moved that the matter should be referred to the Central Pharmaceutical War Committee, and after further discussion THE PRESIDENT promised to place the views of the Council before that Committee.

Examination Concessions

THE VICE-PRESIDENT, presenting the report of the Education Committee, said the Committee had given careful consideration to ten special applications in respect of the examination regulations, and had granted certain concessions in these cases. One application for the return of an examination fee had been granted. During April five concessions were granted to ex-Service candidates in respect of subjects of the Intermediate examination, and two in connexion with the Chemist and Druggist Qualifying examination. An application from five ex-Service students for further concessions in respect of the Qualifying examination had been refused. An application for approval of a course of study for the examination in biochemical analysis at Leicester College of Technology was granted by the Committee.

Appointment of Examiners

It was agreed that the following should be appointed examiners for the Council Prizes examination, 1946: *Pharmaceutical Chemistry*, Professor W. H. Linnell; *Pharmacognosy*, Mr. G. E. Trease; *Physiology*, Professor A. D. Macdonald; *Pharmaceutics*, Dr. H. Davis.

The following were appointed examiners for the Scholarships examination, 1946: *Languages*, Miss E. W. Garratt; *English Essay*, Mr. T. Dewar; *Business Methods*, Mr. R. M. McCrone; *Chemistry*, Dr. D. H. Richardson; *Botany*, Dr. W. O. Howarth; *Pharmacy*, Mr. H. B. Mackie.

Benevolent Fund and War-Aid Committee

MR. J. F. McNEAL (chairman) reported that the total received for the War-Aid Fund to April 29 was £40,308; expenditure was £11,116. A grant of £350 had been made to one applicant for assistance; no other application had been refused. In reply to MESSRS. PARRY and HESLITINE asked respectively whether the War-Aid Fund would assist applicants who received inadequate compensation from the Government, and whether benefit was obtainable irrespective of the applicant's means. CHAIRMAN said that the objects of the fund were set out, and if any application within those objects the Committee would be happy to consider it. If any member was doubtful about his own case he could make application, and the Committee would consider it. From the Benevolent Fund grants had been made to eight widows, a total of £297 and to five members to a total of £45 10s. The Council approved recommendation for the cancellation of a grant of £104 to one applicant at the April meeting.

Establishment Committee

MR. HOWELLS (chairman of the Establishment Committee) reported that Dr. Wallis had accepted the Council's offer to continue his appointment as curator of the Society's Museum from October 1. The appointment of Mr. G. W. G. Smith to be an assistant in the Codex Department was also reported. At the suggestion of THE VICE-PRESIDENT, the Establishment Committee agreed that the secretary should compile a list of decorations awarded to members and registered students of the Society. A record of casualties had already been prepared.

Organisation

MR. F. G. WELLS said that an interesting question had been raised in the Committee by MR. HESLITINE, who had recently been to Jersey and was asked there whether a lady in retail pharmaceutical business in Jersey could become an honorary member of the Jersey Branch. He (Mr. Wells) himself had been to Jersey since Mr. Heslittine's return, and it appeared that the lady in question was of French extraction and held a French qualification. She kept the Jersey Branch of the Society in touch with France during the war, and this helped in obtaining supplies and the Branch was anxious to honour her. The recommendation that the granting of honorary membership should be approved was accepted.

Conference Arrangements

PRESIDENT reported arrangements by the British Pharmaceutical Conference Committee for the holding of the conference in London on July 16 and 17. Meetings would be held at the Connaught Hotel, and there was to be an innovation on the second day—a symposium session on the discussion of short papers on matters of current scientific pharmaceutical interest. The programme of the Conference was:—
FIRST DAY: 10 a.m., Opening session; 10.30 a.m. Science session; 1 p.m., Luncheon; 2.15 p.m. to 4.30 p.m., Science session; 6.30 p.m., Dinner; 8 p.m. to 10.45 p.m., Dance.

SECOND DAY: 10 a.m., Science session; 11 a.m., Symposium session; 1 p.m., Luncheon; 2.15 p.m., Science session; 4.30 p.m., Closing session.

The price of tickets (valid for the two days) would be £3 3s. MR. MELHUISH stated that this programme indicated a marked return to the scale of the pre-war conference.

Connaught Memorial Fund

The Treasurer of the Conference, said PRESIDENT, had reported to the Committee that contributions to the fund for a memorial of Mr. C. E. Corfield now amounted to £5 10s. 6d. The form of the memorial was under consideration. The following had been elected Members of the Committee: Mr. George Dalrymple, Liverpool; Mr. J. Hoy Robertson, B.Sc., Ph.D., London; and Mr. Sydney G. E. Stans, B.Sc., F.R.I.C., London.

Law Committee

The minutes of the Law Committee, presented by THE PRESIDENT, showed that the Committee had considered with concern the fact that 983 authorised sellers, 201 unauthorised sellers and 369 drug-store proprietors had been visited by the Council's inspectors and agents. Seventeen cases of alleged infringements had been considered and appropriate action taken. The Committee had considered with concern the frequency with which invalid authorisations for the sale of strychnine were issued by the police in various parts of the country, and the secretary was instructed to report the matter to the Home Office with a request that the Home Secretary should cause to be clarified all Chief Constables upon it. Several members of the Council expressed the view that the strychnine regulations were out-of-date, and that steps should be taken to secure their revision at an early opportunity.

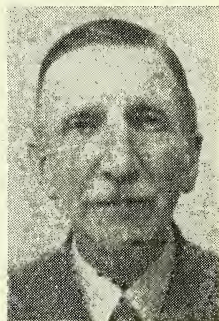
Advertising of Dispensing Services

It was reported that satisfactory assurances had been received from two of the advertisers reported at the previous Council meeting and that, in one other case, correspondence was continuing. Four new instances of the type of advertising to which objection was taken were brought to the notice of the Council and appropriate action taken.

The British Pharmaceutical Students' Association sent a letter thanking the Council for a donation of £25.

HAND-MADE APPLIANCES IN OCCUPIED GUERNSEY

MR. C. STONELAKE, M.P.S., and Mrs. Stonelake, Guernsey, by organising and running a workshop for making surgical appliances during the German occupation of the island were instrumental, it has recently been revealed, in saving the lives of many of their fellow islanders. Owing to the large numbers of sedentary workers transferred to lumbering and other arduous tasks the demand for surgical belts soon absorbed the stocks held in the island, and became one of the pressing problems for local pharmacists. Mr. and Mrs. Stonelake helped to solve this by making by hand a total of 278 belts. With the assistance of local authorities, stocks of leather, thread, needles and other sundries were taken over from cobblers' shops, and sewing machines were removed and installed behind Mr. Stonelake's pharmacy. In spite of Nazi-imposed curfew hours and difficulties such as the lack of buckles and hooks, surgical belts continued to be turned out from the workshop. The work of the two volunteers reached its zenith, perhaps, in the making, under medical supervision, of five individually fitted spinal jackets, the framework of which was forged of steel by the local blacksmith.



Trade with Colombia.—A booklet in the series "Hints to Business Men" (Department of Overseas Trade) dealing with trade conditions in Colombia has been issued. It is available from H.M. Stationery Office.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on April 26. The president, Mr. James McDowell, was in the chair, and there were also present Mr. J. W. Gray (vice-president), Mr. J. McGregor (treasurer), Messrs. C. Abernethy, J. E. Connor, H. H. Cowzer, J. Donaghy, S. H. Forrest, J. Glendinning, H. F. Moore, J. T. Nicholl, W. C. Tate, J. Irwin, F. R. Moore, and Professor E. B. C. Mayrs. Mr. D. L. Kirkpatrick (secretary) and Mr. W. Gorman (assistant secretary) were in attendance. An apology was received from Mr. T. Nelson.

THE PRESIDENT extended a welcome to Mr. Connor on his reappearance at the Council and made a sympathetic reference to the illness of Dr. S. E. A. Acheson. The congratulations of the Council to Mr. F. R. Moore on his appointment as a director of the Provincial Bank of Ireland were conveyed by Mr. GRAY.

Arising out of the minutes of the last meeting THE SECRETARY reported that the subscription to the International Pharmaceutical Federation would not exceed £10 and it was decided to remit the subscription to the secretary of the Pharmaceutical Society of Great Britain. On the motion of Mr. MCGREGOR, seconded by Mr. CONNOR, it was decided that the president and vice-president for the time being should act as delegates to the Federation.

Poisons Regulations

THE SECRETARY reported that the first part of the new Regulations under the 1945 Act had been issued and that the second part dealing with poisons would follow at an early date. A letter was received from the Ministry of Home Affairs stating that the Minister had noted with regret the decision of the Council on the placing of carbolic disinfectants up to 30 per cent. phenols in part III of the Poisons Schedule. The letter read "The Minister feels that the decision is not in the best interests of the public but in order not to delay the issue of the Poisons Regulations he will not press at this stage for a review of the Council's decision but reserves the right to take such action at a later stage as may appear desirable. In the meantime it is proposed to allow traders other than chemists, chemists and druggists, and druggists, to sell carbolic disinfectants containing 3 per cent. or less of phenols (a privilege they enjoyed under the Pharmacy and Poisons Act (Northern Ireland) 1925) and

such substances will therefore be included in Group 2 of the third schedule of Poisons Regulations."

The Belfast College of Technology granting the use of rooms in the College for the examinations in June.

A letter was received from Magherafelt Technical School stating that the syllabus for the Council's examinations could be covered in the school in three years by renewing its application for a grant.

THE SECRETARY pointed out that the School was not properly equipped to teach scientific subjects. Magherafelt had received a grant of £50 for two years but last year there were no students, the previous year three and in 1944 there were four. Two students qualified. He added that the Portlough Technical School would add zoology to its syllabus in 1947 and would have day classes.

It was decided on the motion of Mr. FORREST, seconded by Mr. DONAGHY, that a grant should not be made. THE PRESIDENT said it should be the policy of the Council as far as possible not to encourage schools which do not provide day classes for pharmaceutical students. The case of a student who had not obtained a pass in physics in the course of the transition in the examinations and who asked for acceptance in the Council's discretion was referred to the legal adviser. Mr. PATRICK raised the matter of ex-Servicemen who might wish to be indentured and asked whether their war service could not be taken into account. Mr. KIRKPATRICK said in these circumstances a student could not be indentured unless he had previously been a registered apprentice. It was agreed that the Society's solicitor should also be asked for advice on this point.

Appointment of Secretary

The Council proceeded to the appointment of a secretary in succession to Mr. Kirkpatrick whose retirement from the secretaryship is to date from June 30. Mr. PRESIDENT proposed and Mr. ABERNETHY seconded that the position should be offered to Mr. W. Gorman, who was appointed assistant to the secretary in September 1945. The motion was passed unanimously. It was further decided that the salary should be fixed at £450 per annum in the first year, rising to £500 by two yearly increments of £25 each. Mr. Gorman was advised by the president of the Council's decision and terms of the appointment and said that he would be glad to accept it. He thanked

for its confidence and expressed his appreciation of the way in which Mr. Strick had assisted him in the performance of his duties since he had joined the staff of the Society.

THE PRESIDENT said that as Professor Williams is about to retire from the Belfast College of Technology, it would be an appropriate time to approach the authorities with a view to the establishment of a Department of Pharmacy. It was proposed

by MR. NICHOLL, seconded by MR. ABERNETHY, and agreed that a letter should be sent to the principal of the College giving the Council's views.

It was also approved that a request should be made to the Ministry of Home Affairs for the pharmacy inspector, Mr. J. N. Patterson, to give a lecture to pharmacists on the new regulations. It was suggested that the lecture should be given first in Belfast and then in other centres.

WEST OF IRELAND TRADE MATTERS

MR. A. COSTELLOE (president, Irish Drug Association) and Mr. Brendan Smith (treasurer and organising secretary) accompanied by Mr. J. P. Whelehan (president, Pharmaceutical Society of Ireland) made an organising tour recently for the Association of a number of towns in the West of Ireland, finishing up at Galway, where the party attended the annual meeting of the West of Ireland Chemists' Association on April 28. The representative attendance at the meeting included chemists from Sligo, Westport, Tuam, Ballina, Galway, Charlestown, Ballyshannon, Tubercurry, Claremorris, Castlereagh, Mount Bellew, Ballygar, and Headford. MR. T. P. TOHER, Sligo, who presided over the meeting, welcomed the representatives of the Pharmaceutical Society of Ireland (I.D.A.), and thanked chemists who had travelled long distances to be present. He believed they would benefit pharmacoeconomically by being present. The following outgoing officers were unanimously re-elected: Chairman, Mr. T. P. Toher, Sligo; Vice-Chairman, Mr. Thomas Stack, Westport; Joint Secretaries, Messrs. M. J. Mulreany, Sligo, and C. Flanagan, Headford; Joint Treasurers, Messrs. M. Durcan, Ballina and J. Whelehan, Castlereagh.

Guests Welcomed

MR. G. HEWSON, welcoming the two guests, said it was helpful for chemists in the country to have an opportunity of meeting the heads of their own organisation. He hoped these visits would be more frequent, and that eventually the annual meeting of the Society would be held in the north or South, and not always in Dublin. The concession made by the Society for those who had served in the Defence Forces, he thought, was a very small appreciation for the services these young men had given. No opposition to such concession was in his view ungracious. It was contended that pharmacy today was an overcrowded profession in the country. If that were so, why,

he asked, contemplate increasing the number of Licentiates by creating more from the ranks of the Registered Druggists? If they were to consider a modified examination for the Registered Druggists, why not for the older qualified assistants who had never been able to obtain their Licentiate? Other delegates raised questions about delays in receipt of invoices from wholesalers; the practice of adding cost of carriage and containers to their accounts; notice of proposed reductions in the prices of drugs; and confining toilet preparations to chemists. MR. WILLIAM ADAMSON urged that representation on salaries and pensions paid to compounders employed by local authorities and hospitals should be made to the appropriate Government department. The retirement of older compounders upon fair pensions would provide opportunities for young pharmacists. A discussion followed in which it was suggested that the I.D.A. should have an "unapproved," or "black list," as well as an approved list, to deal with firms whose trading policy was against the interests of pharmacists. The profit margin on penicillin preparations was discussed, and it was unanimously agreed that 50 per cent. on cost was not sufficient on goods that might perish.

MR. J. K. WHELEHAN complimented pharmacists in the West on having such a live organisation. He had been advised recently on the powers of county managers to issue licences under the 1908 Act, and the effect of the advice was that the matter was in the discretion of each county manager.

MR. M. COSTELLOE spoke on the diverse views that existed within the I.D.A. on the question of co-operation with the wholesale section. Some held the view that the more effectively wholesalers and manufacturers were organised, the more effectively they could charge higher prices. The venue for the next meeting was fixed for Boyle on September 15.

OVERSEAS TRADE NEWS

Whale Oil Catch.—The Norwegian whaling factory ship, Sir James Clark Ross, is reported to have returned to port with a cargo of 64,000 barrels of whale oil.

India Bans Export of Groundnuts.—The Government of India has banned the export of groundnuts. Export had been suspended since February 27 in view of the Indian food situation.

Brazilian Gampara-nut Oil.—Brazilian gampara-nut oil, which is suitable for conversion into resin, constitutes a valuable raw material for the synthetic industries. Exports this year from Brazil will reach about 60,000 tons of nuts.

Savannah Rosin and Turpentine Market.—Many applications for rosin export licences under the recently announced quota have been returned to the applicants owing to lack of sufficient information. Consequently the movement of rosin to be shipped from the U.S. under the export quota has been delayed. Demand for turpentine continues to increase, but some difficulty is being experienced in procuring carload lots due to the slowness with which the new crop is being moved.

U.S. Penicillin Exports Soaring.—United States shipments of penicillin during April were valued at \$5,541,000. This total is five and a half times as much as the monthly exports of all drugs and medicines from the country during 1938. Despite a 40 per cent. increase in production during the first quarter of the year, export allocations will be continued until the full needs of the export market can be filled without disturbing domestic supply. U.S. penicillin export figures for March were given in the *C. & D.*, May 4, p. 571.

Pharmaceutical Industry in Nova Scotia.—The Regional Construction Council announces that the Topper Pharmacal Co. of Montreal has completed arrangements to buy certain war-time buildings in New Glasgow, Nova Scotia, where it will manufacture cod-liver oil and other pharmaceutical products. The company, it is stated, plans to move its plant to New Glasgow and will get operations under way as soon as machinery can be installed. The announcement said the company was approached, jointly, by the Nova Scotia Reconstruction Council and Department of Industry and as a result, the necessary buildings and machinery were made available.

Bandits Attack Drug Stores.—A series of hold-ups of drug stores is reported from Montreal. Claiming that these establishments should receive as much protection as banks, the College of Pharmacists of the Province of Quebec has sent a letter to police authorities demanding better protection. In several instances, pharmacists have been attacked during the robbery. Customers frequenting drug stores have often been forced to hand over their wallets to the gunmen. Police believe that a "drug store" gang has planned systematic armed robberies of pharmaceutical establishments throughout the city.

High U.S. Chemical Exports Anticipated.—United States exporting circles anticipate that chemical exports for 1946 to exceed previous shipments by nearly 100 per cent., tentatively estimating the value of such exports for 1946 at approximately \$335 million. In fact, an even larger volume may be attained if shortages of raw materials be overcome. Manufacturers are keen to avail themselves of the opportunities provided by the elimination of Germany, a major source of supply, but in this field as in many others, the domestic market has priority in the United States. The outlook is regarded as particularly favorable in the plastics field, and some estimates that plastics exports may exceed the high total of \$17,000,000 shipped abroad during 1944. Latin America is seen as providing a market for some 10,000,000 lb. of plastic materials annually.

Argentine Seeds and Oils.—Rumours have been circulating in Buenos Aires regarding the official linseed prices in connexion with sales to the United States and, consequently, the market has been subdued and unsettled. Spot crude linseed oil is quoted at 85 cents per kilo in bulk. The sunflower-seed oil market is also quiet, although one crusher purchased a fairly large quantity while receipts have generally satisfied trade. Groundnuts, contrary to other markets, are encountering active demand and several thousand tons changed hands on the hope of obtaining export licence for the oil to Cuba. Old-crop groundnuts are being offered at 41 pesos in bags, new-crop July at 38.50 pesos buyers' hundred kilos. Some business has been reported in groundnut oil, with semi-refined near delivery, for home consumption selling at 1 peso per kilo in bulk. Rapeseed, cottonseed and their oils ruled quiet.

TRADE REPORT

otations for pharmaceutical chemicals represent the prices for wholesale quantities of and quality. Prices of crude drugs and essential oils vary according to brand or grade.

28 Essex Street, W.C.2, May 8

U.S. Drug Market Report

New York, May 3

CTIONS on the markets have remained rather quiet during the past week, with no features of interest to report. A steady revails throughout, with price movements confined to small amounts for a few articles. The only important price alteration in PHARMACEUTICAL CHEMICALS concerns CAFFEINE and THEOBROMINE, new schemes for which are given on p. 606. Prices of these two products have been reduced owing to the recent grant of drawback in connexion with the manufacture of theobromine. The new prices will operate on 15.

Crude Drugs

Conditions in these markets may be described as slow for the home trade, with some export inquiry. Most of the business for overseas markets, however, is in manufactured articles rather than in crude drugs. A few price changes have occurred during the week, but none is of sufficient importance to merit special mention. Some BELLADONNA ROOT may be obtained on the spot. More business is reported from Chinese natural CAMPHOR. CARDAMOM continue scarce and firm. CHILLIES and other spice products are quiet with no alterations to report. COLOCYNTH is at a easier price noted last week. GUM ACACIA continues firm. KARAYA GUM is in demand but rates are unchanged. MENHOL is again firmer at the source. Only a small inquiry is being received for

Essential and Expressed Oils

British distillers of CLOVE bud oil notify a price tendency for this essential oil the price is. per lb. down on recent quotations. Existing prices of UNREFINED and FATS and TECHNICAL ANIMAL FATS are unchanged. Existing prices of UNREFINED and FATS and TECHNICAL ANIMAL FATS are unchanged during the weeks ending June 1, according to an announcement issued by the Ministry of Agriculture. The following essential oils have been removed from the scheme of distribution the Essential Oils Control: VETIVER, CITROUS, GERANIUM and GUAIAWOOD. Previously removed from the distribution scheme are: Bay, lavender, lavender, and saffron (Brazilian) and lemongrass.

BRAZILIAN MENTHOL advanced further during the week but, with the exception of a few re-export inquiries, some from Canada, little interest has been noted in the material. It is thought that supplies of CAMPHOR may shortly arrive from the Far East; while powdered material is available in ample quantities, the tablet form remains in tight supply. A sharp rise in the price of THEOBROMINE featured the FINE CHEMICAL markets this week. Price restrictions on the material have recently been lifted by the Office of Price Administration and an increase in the quotation approximating one dollar has been attributed to the high costs of the crude material. There have been substantial inquiries from abroad for ACETYSALICYLIC ACID but despite the termination of the main consuming season, the material is difficult to locate in large quantities. The continuation of the coal strike threatens the future domestic supply of SALICYLATES, BARBITONE, PHENOBARBITONE and certain SULPHA drugs. The milk-sugar requirements of PENICILLIN have occasioned a tight position in the material for other industrial purposes. Little interest has been displayed in MERCURY and such items as VANILLIN and COUMARIN continue scarce. Higher prices on a number of CRUDE DRUGS have been noted over the past week; all types of TRAGACANTH, GUM ACACIA and CARNAUBA WAX moved up, the latter having risen a further 5 cents on the new record price reached a week previously. Stocks of LYCOPodium and ANGOSTURA BARK are reported almost exhausted, the new and higher quotations being virtually nominal. With no carry-over of WHITE PINE BARK into the new season, trade circles predict that supplies will fall considerably short of demand. A notable arrival during the week was a consignment of KARAYA GUM from India; more than 2,500 bags were delivered, it is reported. Meanwhile, the Food and Drug Administration continues to hold up large quantities of imported drugs. An irregular demand for ESSENTIAL OILS and AROMATIC CHEMICALS has been noted on the U.S. markets. Natural Italian BERGAMOT OIL is plentiful and price declines in a number of items took place.

Pharmaceutical Chemicals

ACETANILIDE.—Demand continues good. Makers' prices are steady at 2s. 5d. per lb. for powder, and 2s. 6d. for crystals.

AMPHETAMINE.—About 150s. per lb. is quoted by makers.

ATROPINE.—Home market prices per oz. are : ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE, 75s.

BISMUTH SALTS.—New prices per lb. for CARBONATE, in quantities of 14 lb.—28 lb., are as follows (containers in brackets): 13s. 0½d. (1-lb.); 12s. 11½d. (2-lb.); 12s. 11d. (4-lb.); 12s. 10d. (7-lb.); 12s. 9½d. (14-lb.). CITRATE, 2s. per lb. above; SALICYLATE, 6d. per lb. above; SUBGALLATE, 4s. 3d. per lb. above; SUBNITRATE, 1s. 2d. per lb. below the prices for carbonate.

BORIC ACID.—Current rates per ton are as follows: B.P. quality, granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 per ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards.

BORAX.—Ton lots are quoted as follows: B.P. quality, granulated, £38; crystal, £39; powder, £39 10s. Commercial grades, £8 per ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots.

BROMIDES.—POTASSIUM, in quantities of 28 lb., is quoted at the following rates per lb. (containers in brackets): 3s. 2½d. (1-lb.); 3s. 1d. (4-lb.); 3s. (7-lb.); 2s. 11½d. (14 lb.); 2s. 10½d. (28-lb.). SODIUM, 1½d. per lb. less, and AMMONIUM 1½d. per lb. more, than above prices. Prices are net without engagement.

BRUCINE.—Current rates per oz. are as follows: ALKALOID.—Under 25 oz., 1s. 4½d.; 25 oz. and under 100 oz., 1s. 4d.; 100 oz. and under 500 oz., 1s. 3½d. NITRATE and SULPHATE.—Under 25 oz., 1s. 3½d.; 25 oz. and under 100 oz., 1s. 3d.; 100 oz. and under 500 oz., 1s. 2½d.

CAFFEINE.—Reduced prices per lb. as under will come into force on May 15:—

	28 lb.	7 lb.	List
	s. d.	s. d.	s. d.
Alkaloid, anhydrous ..	32 0	33 0	34 0
Alkaloid, B.P. powder ..	30 6	31 6	32 6
Citrate, B.P.C. ..	21 0	22 0	23 0
Sodium benzoate, B.P. ..	21 0	22 0	23 0
Sodium salicylate, B.P.C. ..	21 9	22 9	23 9

Assorted contracts may be booked for the above for not less than 5-cwt. lots over six months. CAFFEINE SODIUM IODIDE (28 lb., 25s.; 7 lb., 26s.; list, 27s.) cannot be assorted with above. 28-lb. tins are free, other containers extra. Prices net, without engagement.

CHLORAL HYDRATE.—Steady; current prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; less, 5s. 3d.

MANDELATES.—Makers' quotations are unchanged. SODIUM and CALCIUM.—4 oz., 8 oz.,

and 1 lb., 22s., per lb.; 4 lb., 20s. 3d.; 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 28 lb. (in 7-lb. packages), 15s. per lb. AMMONIUM (50 per cent. solution).—4 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 1. 28 lb. (in 7-lb. packages), 7s. 11d. per lb. Packages are charged extra and should be returned promptly.

MANDELIC ACID.—In good demand. Current quotations are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 28 lb., 15s.

METHYL SALICYLATE.—In good supply. Smallers are quoted at 2s. 6d. per lb.; chests at 2s. 1½d.; 56 lb., in demijohns 1 cwt., in demijohns or carboys, 1s. 1. 5 cwt., 1s. 11d. All prices net.

THEOBROMINE.—Reduced prices per lb. as under will come into force on May 15:—

	28 lb.	7 lb.
	s. d.	s. d.
Alkaloid, B.P.C. ..	30 6	31 6
Calcium salicylate ..	19 3	20 3
Sodium salicylate, B.P. ..	19 3	20 3

Conditions as those for CAFFEINE. 10-BROMINE and SODIUM BENZOATE (28 lb., 20s. 9d.; 7 lb., 21s. 9d.; list, 22s. 9d.) cannot be assorted.

Crude Drugs

ANTIMONY.—Continues in good demand; prices unchanged. Minimum 99.6 per regulus, £132 10s. per ton; minimum 99 per cent., £125; 70 per cent. crude, for the 1 trade, £105 per ton delivered.

ARECA NUTS.—Spot continues to be quoted by dealers at 75s. per cwt.; shipment rates at 55s. c.i.f.

BALSAMS.—Canada is quite firm on spot at 13s. 6d. to 14s. per lb.; Peru, steady and unaltered at 8s. 3d.; Tolu and Copal are unobtainable.

BELLADONNA.—Indian root testing 2 to 3 cent. is quoted on spot at 2s. 9d. per lb.

BISMUTH.—High-grade metal is steady at per lb., in minimum 5-cwt. quantities.

BUCHU LEAVES.—In small supply on the at 5s. per lb.

CAMPHOR.—Supplies of Chinese powder afloat, price of which will be 12s. 6d. to per lb., duty paid. Tablets are reported have been done at 15s. per lb., c.i.f.

CARDAMOMS.—Scarce and firm. Ale seed, spot, 8s. 6d. per lb.; Aleppy green 7s. 6d.; Mangalore heavy, 7s.

CHAULMOOGRA.—*Hydnocarpus* is steady the spot at 2s. per lb., in tins in cases.

CHILLIES.—Conditions remain quiet; sellers of Mombasa on spot at 150s. per cwt.

CINNAMON.—Small spot supplies of chips quoted at 2s. 2d. per lb.; quills are not available.

PEPPERS.—Quiet conditions obtain with sellers of pepper on the spot at 1s. 1d. per lb.; export, May–June, 9½d. per lb., c.i.f., buyers' prices.

PERUVIAN SILVER.—Silvers and blacks are quoted on the spot at 5s. 6d. per lb.

PEPPER BUTTER.—Price is fixed at 1s. 5½d. per lb., ex factory or warehouse, except under special conditions.

PEPPERY.—The easier conditions noted last week continue with spot goods at 2s. 6d.

PEPPER LEAVES.—In small demand. Portuguese, 140s. per cwt.; English, 2s. 6d.

PERUVIAN ACACIA.—Kordofan cleaned sorts is at the higher figure of 75s. per cwt., quoted last week bleached, unchanged at 145s., and English Talha at 42s. 6d.

PERUVIAN BANE.—Egyptian (*muticus*) remains at the higher figure of 90s. per cwt.; English, 250s. per cwt.

PERUVIAN LALA.—Spot supplies are exhausted. Price normal at 3s. per lb.

PERUVIAN GUM.—In steady demand. Indian gum may be obtained on spot at 210s. to 215s. per cwt.

PERUVIAN NUTS.—Spot prices unchanged; business quiet. African quarters, 8d. per lb.; African halves, 6d.; Jamaican washed halves, 7d.

PERUVIAN THOL.—The price in Brazil is again firmer at 1s. per lb., f.o.b. A good export demand is in goods here on transshipment, up to 28s. per lb. being paid. Spot, duty paid, is at 1s. 6d. to 32s. 6d. per lb.

PERUVIAN MERCURY.—Prices are controlled by the sale of Mercury (No. 11) Order, 1945 (S.R. & O. 1945, No. 1129) (C. & D., October 13, 1945, p. 388).

PERUVIAN MEGS.—In exceedingly poor supply. Conditions are: West Indian 80's, 4s. 6d. per lb.; sound unassorted, 4s. 3d.; wormy or broken, 4s.

PERUVIAN VOMICA.—Cochin, spot, 45s. per cwt.; export, 39s. 6d., c.i.f.; Mangalore, spot, 37s.

PERUVIAN PAIN.—East African material is quoted on the spot at 16s. 6d. to 17s. 6d. per lb.

PERUVIAN PEPPER.—Whole, not picked over or cleaned, for processors, is officially priced at 1s. 4d. per lb. for white pepper and 1s. per lb. for black pepper.

PERUVIAN PENTO.—Spot sellers at 1s. 3d. per lb.; export, 122s. 6d. per cwt., c.i.f., buyers' prices.

PERUVIAN CLAIA BARK.—In limited supply. Natural, 110s. per cwt.; cut, 130s., ex warehouse.

PERUVIAN BARB.—Rough-round, afloat, 11s. per lb., ex shipment, 10s., c.i.f. There are no buyers' prices.

PERUVIAN SPS.—Little inquiry is being received for seed; spot prices are as follows:

PERUVIAN L.—Available at 175s. per cwt. **PERUVIAN**

GREEK.—Steady at 85s. **DILL.**—Indian, unchanged at 90s. to 95s. **CORIANDER.**—Moroccan may be had at 165s.

VALERIAN ROOT.—Belgian material is now quoted on spot at 275s. per cwt.

WAXES.—The higher rates for CARNAUBA noted last week are maintained. Fatty grey, spot, sellers at 1,050s. per cwt.; chalky, 1,030s.; prime yellow, 1,200s.; shipment, fatty grey, 950s.; prime yellow, 1,075s. **BEES.**—Quoted on the market as follows: Dar-es-Salaam, spot, 330s. per cwt.; shipment, 310s., c.i.f.; Benguela, 275s., c.i.f.; Abyssinian, 280s., c.i.f. **OURICURI.**—Spot, nominal; to arrive, 620s. per cwt., c.i.f., 7 per cent. basis. **CANDELLA.**—Spot, nominal; shipment, 465s. per cwt., landed terms.

Essential and Expressed Oils

CLOVE.—English-distilled bud oil is easier at approximately 12s. per lb.

COCONUT.—The following are the fixed prices for bulk quantities: Crude, £49 per ton; refined deodorised, £49; refined hardened deodorised, £53.

COTTONSEED.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, £55 5s.; refined edible, £57; refined deodorised, £58, naked ex works.

GROUNDNUT.—Bulk supplies are officially quoted as follows: Refined deodorised, hardened to 40°, £62 per ton; refined deodorised, hardened to 50°–52°, £63.

LINSEED.—Crude, £65 per ton for bulk supplies, naked ex works.

Synthetics and Isolates.—Many of these products remain in short supply. The items quoted below are not necessarily available because prices are given (rates per lb., unless otherwise stated):—

Amyl acetate, per cwt.	122s.
Amyl salicylate	4s. 6d.
Aubepine, perfumery quality	50s.
Benzyl acetate	4s.–4s. 6d.
Benzyl alcohol	4s.
Benzyl salicylate	12s. 6d.
Butyric acid	7s. 6d.–8s.
Cinnamic aldehyde	9s.
Citral, chemically pure	55s.–60s.
Citronellal	60s.–70s.
	(nominal)
Citronellol	60s.–70s.
	(nominal)
Coumarin	17s. 6d.
Ethyl butyrate	8s.–9s.
Ethyl phthalate	2s.–2s. 6d.
Eucalyptol	13s.
Eugenol	18s. 6d.
Geraniol, ex palmarosa	80s.
Geranyl acetate	85s.
Ionone, 100 per cent.	90s.
Isoeugenol	22s.
Methylacetophenone	15s.
Methylbenzoate	6s.
Methylphenyl carbonyl acetate	14s.
Rhodinol, African geranium	150s.

CORRESPONDENCE

Council Election

SIR,—We often hear pharmacists grumbling about the lack of initiative in the policy carried out by the Pharmaceutical Society. Surely it is true of a body such as ours, as much as of any nation, that it "gets the Government it deserves." I would therefore exhort all fellow pharmacists to vote in the forthcoming election, and would remind them that now is the time. Next week will be too late; any apathy shown in this matter at this crucial moment in the history of pharmacy will no doubt be noted in certain quarters, and by certain bodies with whom negotiations will shortly have to take place. It may have a disastrous effect on the future of pharmacy.

Yours faithfully,

Saltburn-by-the-Sea. J. M. LANGMAN.

Mallinson Testimonial Fund

SIR,—As the chairman of the N.P.U. in its jubilee year, I would like to thank those pharmacists who have contributed so generously to the testimonial to Mr. G. A. Mallinson, the secretary of the organisation since its inception in 1921. The response has been most encouraging and it is intended to present Mr. Mallinson with a cheque and an illuminated album at the jubilee dinner on May 29 next. As it is desirable to have the signatures incorporated into the album, it is necessary to close the fund on May 25. May I ask, therefore, all who wish to be associated with the testimonial to forward their contribution to Mr. A. R. Melhuish, 78 Duke Street, London, W.1, as soon as possible.

Yours faithfully,

E. A. BROCKLEHURST,

London, W.C.1.

Chairman, N.P.U.

Eire Modified Licence Examination?

SIR,—In a recent issue of the *C. & D.* it was reported that the registered druggists of Eire are seeking concessions from the Pharmaceutical Society of Ireland by way of a modified licence examination. I hope the Society will carefully consider its decision in this all-important matter. It would appear from discussions at a recent Council meeting that they are anxious to preserve a certain standard for their licence examination, and there are some who would even raise it. By instituting any modification, such as that of their northern counterpart, they would, I believe, be lowering that standard considerably.

It appears that I and 900 other chemists in this country were very foolish to our time, money (and what an amount of energy) in qualifying when we could have taken the R.D. and waited for the "L. Liquorice" examination to become L.P. Furthermore, the 800-odd qualified chemists would be foolish to work for a savage test of memory, the Licence, not take the R.D. or seek concessions of a similar nature which I think they just as much, if not more, right to take the R.D.'s?—Yours faithfully,

M.P.S.I., M.U.

TRADE MARKS

(From "The Trade Marks Journal," April 17)

"PRIVINE"; for pharmaceutical substances for human and veterinary use; and for sanitary substances (5). By Ciba, Ltd., 141-227 Klybeckstrasse, Basle, Switzerland. 639,099 (Associated).

"NINONA"; for toilet utensils, perfume powder puffs, soap cases, brushes, etc., none being made of metal (21). By E. Crispe, 80-84 Clerkenwell Road, London, E.C.1. 638,242 (Associated).

(From "The Trade Marks Journal," April 24)

"VOGUE" and "VOGUE VANITIES"; for cosmetic powder boxes (3). By Black & White Productions, Ltd., 28 Villa Road, Heston, Middlesex, B633,333 (Associated).

"RECONDAIR"; for toilet and cosmetic preparations, and perfumes (3). By S. & Co., Ltd., 47 Tabernacle Street, City of London, E.C.2. 636,952.

"FRIZELLA"; for perfumery, toilet and cosmetic preparations, essential oils, etc. By W. B. Cartwright, Ltd., Lakeside View, Mount Vernon Road, Larkfield, Rampton, Leicestershire. 637,870.

"GORNIDONT"; "GORNILIN"; "GORNILIN" for all goods (3). By Gorney, Ltd., 35 Netherland Street, Broughton Park, Chester, 7. 638,115-16 and 638,303 (Associated).

"VAGABOND"; for perfumery, toilet and cosmetic preparations, etc. (3). By V. 222-24 Harrow Road, Paddington, London, W.2. 639,417.

"KREO"; for pharmaceutical preparations and substances (5). By M. I. Dowling, 120 Park Road, Oldham, Lancs. 637,2.

"CURATOR"; for pharmaceutical and sanitary substances, infants' and invalids' first aid, medical and surgical plasters, disinfectants, weed-killers and vermin destroyers (5). By Sundrops, Ltd., 1018 Manchester Road, Linthwaite, Yorks. 637,882.



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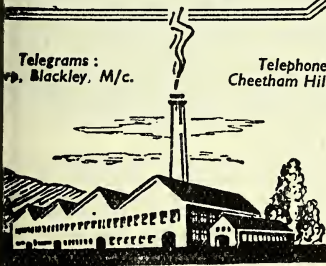
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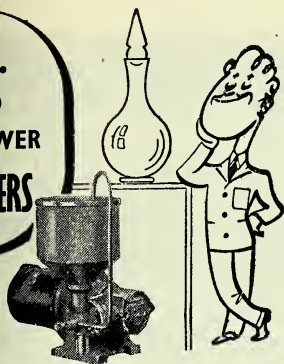
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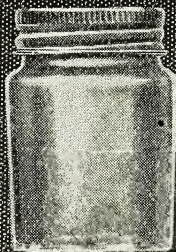
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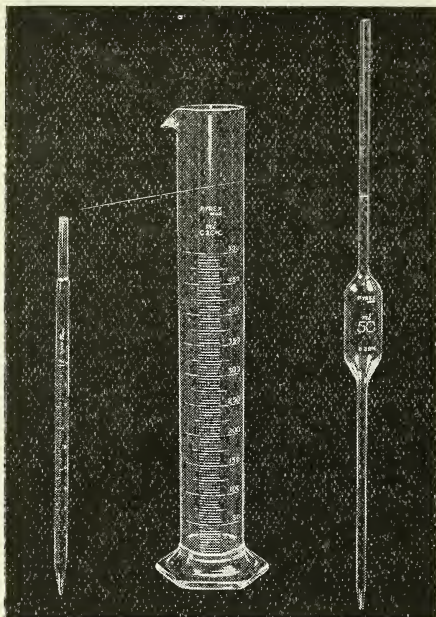
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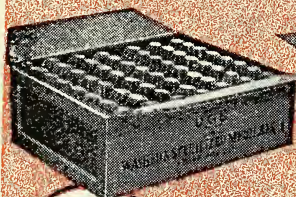
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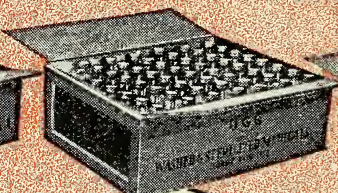


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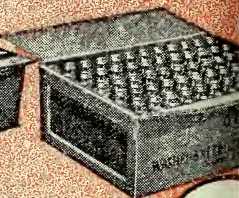
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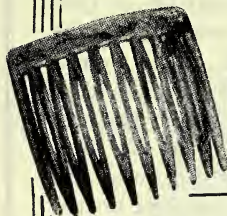
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MAY 11
1946

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 & D. Office.

ENTATIVE, London, required. Com-
 mencing on basis. Calling on best chemists. Lines
 in demand. Good supplies. Well-known
 firm. Write to 969/217, C. & D. Office.

ENTATIVES required for London.
 in Counties, Midlands, Wales, Northern
 Scotland, to handle good selling toilet
 on commission basis. Reply stating lines
 handled, territory covered, age, and
 salary. Excellent opportunity and
 future. 967/138, C. & D. Office.

ENTATIVES required by firm of manu-
 facturing chemists for their established
 chemical products. Good opportunity for
 connexion to increase considerably their
 business on these good repeating lines. Details of
 offer. Replies to 968/188, C. & D. Office.

ENTATIVE required by firm of manu-
 facturing chemists to call upon Doctors,
 and Chemists in connexion with first-class
 pharmaceutical products in Nottinghamshire,
 Leicestershire and Lower Staffordshire area. Applica-
 tion in the area. 970/262, C. & D. Office.

ENTATIVE required by manufacturers
 to introduce line of nationally advertised
 to visit retail chemists in Lancashire and
 Cheshire. Previous experience in this direction
 essential. Full details S.M., 970/256, C. & D. Office.
ED by a firm of Surgical Dressing Manu-
 facturers, Yorks district. Young Assistant
 qualified for control lab. Aptitude, con-
 science, State age, qualifications, experience and
 salary. 969/224, C. & D. Office.

ED, young Chemist or Pharmacist to
 under Chief Chemist to take charge of
 the sale of pharmaceutical products and toilet
 goods. Excellent prospect for energetic young
 man. Fully stating age, whether married or
 single, references, posts held, when free and
 salary. 969/230, C. & D. Office.

Representatives required by well-known
 manufacturers to call on retail chemists in
 Lancashire, Cumberland, Co. Durham and
 Yorkshire, and (b) Wales. Car-owning
 already resident on these territories with
 experience of the sale of Proprietaries to
 be made will receive favourable consideration.
 & D. Office.

SHIPPING Clerk required to assist Manager,
 S. Export Dept., of old-established London House
 of Manufacturing Chemists. Applicant must be
 accurate at figures and actual shipping experience
 essential; knowledge of Drug Trade an advantage.
 Write stating age, particulars of experience, salary
 required, etc. 969/226, C. & D. Office.

THE Wellcome Foundation invite applications
 from men over 40 for the position of
 Personnel Officer. Applicants should preferably be
 University graduates and should be experienced in
 personnel matters, including legislation affecting
 employment, trade union negotiations and facilities,
 conditions of engagement and employment, staff
 training schemes, health and general welfare of
 workers, staff records and statistics. Contributory
 pension scheme in operation. Applications should
 be addressed to: Personnel, The Secretary, The
 Wellcome Foundation, Ltd., 183-193 Euston Road,
 London, N.W.1.

WORKS Analyst required by London firm of
 Manufacturing Chemists to supervise produc-
 tion control and assay work in connexion with B.P.
 products. B.Pharm. or Ph.C. qualification preferred,
 but not essential. Progressive position for suitable
 applicant. Write 967/156, C. & D. Office.

YOUNG Qualified M.P.S. (male or female) required
 as assistant works chemist by manufacturing
 chemists, S.W. London district. Knowledge of
 typing an advantage but not essential. Progressive
 permanent position. Write stating age, experience
 and salary required. 968/183, C. & D. Office.

WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large company
 operating in the Middle East. Will be employed
 either on Development or Process work and should
 be prepared initially to undertake shift work on
 Process Plant; should possess B.Sc. degree and
 preferably have had subsequent industrial experience.
 Age not over 30. Single men preferred. Starting
 salary not less than £500-£600 p.a. according to
 qualification, together with allowances in local
 currency, also free furnished bachelor accommoda-
 tion, free passages out and home; free medical
 attention; kit allowance; Provident Fund benefits.
 Applicants must be of full British parentage and
 should write stating age, qualifications and experience
 to 968/184, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

A S Unqualified. Few hours useful help given by
 experienced Locum and general Assistant.
 Gibson, 31 Stansfield Road, Stockwell, S.W.9.

A SSISTANT. Lady with general experience.
 West London suburbs preferred. 969/216,
 C. & D. Office.

D RUG Store Manager (50). Competent all
 branches. Now free. 970/241, C. & D. Office.

L ADY (Hall) Certificate. Secretary-Dispenser
 requires responsible post—typewriting if neces-
 sary. Previous position 13 years. Margaret Richards,
 Kildini, 3 Bunegate Road, Felixstowe.

P HARMACIST requires position as Manager with
 unfurnished accommodation. Would consider
 Assistantship. London or near. Free one week.
 970/245, C. & D. Office.

P HARMACIST requires situation—Oxfordshire.
 Experienced wholesale and retail. Recently
 demobbed. Partnership considered or ultimate
 purchase. 969/204, C. & D. Office.

Q UALIFIED, free three or four weekdays.
 Capable, experienced, retail or wholesale,
 London or suburbs. 969/218, C. & D. Office.

WHOLESALE

ADVERTISER, keen, well-educated; excellent references, long experience retail, control filling and packing in wholesale, manufacture and production toilet, cosmetics and pharmaceutical ointments, desires position with small firm. Would consider small financial interest. "Enterprise," 970/257, C. & D. Office.

ADVERTISER, keen salesman, energetic, 100 per cent. sales promotion, desires to Represent firm of standing for Devon and Cornwall territory. Seventeen years high-class experience drug trade. Recently demobilised. Age 35. Good appearance and manner. 970/250, C. & D. Office.

EXPERIENCED Lady Representative desires appointment to established firm. Territory covered previously Yorkshire. Own car. 970/244, C. & D. Office.

LADY Representative, excellent connexion amongst Chemists, Stores, etc. (over twelve years with one house), seeks position with first-class firm (proprietary preferred but not essential). Commission basis, or salary, etc. 969/221, C. & D. Office.

PHARMACIST (34), 19 years' experience home and abroad, wishes inside position with leading manufacturer. Commencing salary minimum £500. 969/208, C. & D. Office.

PHARMACIST (35) at present S/Sgt. R.A.M.C. (release end of June) desires responsible position, Wholesale or good-class retail, London or Overseas; 10 years' pre-war all-round retail experience; 4 years' army medical store and service hospital. 970/266, C. & D. Office.

REPRESENTATIVE, 30 years' excellent connexion S.E. London and S.E. Counties chemists and all leading stores, would consider quality lines on commission basis. 969/207, C. & D. Office.

REPRESENTATIVE, 16 years' Pharmacy experience, seeks position with reputable firm. Well-known to Chemists and Doctors, etc., in territory Kent to Land's End. 968/201, C. & D. Office.

REPRESENTATIVE desiring change with opportunities for advancement, seeks position with firm of repute. Young, smart, energetic, five years' experience and well known to chemists, Co-operative Societies, etc., throughout Surrey, Sussex, Kent, Berks and Bucks. Excellent references. Own car. 969/222, C. & D. Office.

REPRESENTATIVE requires position with house of repute (C.F.). Excellent connexion Chemists, Stores, Co-ops, etc. N.E. Coastal area, South to Skegness. Cosmetics and repeat lines required. Salary, commission and expenses. Full details to 970/263, C. & D. Office.

STRONG Representation in Kent, Sussex, Hants, Dorset, Wilts, offered to house of repute by Gentleman possessing goodwill with the trade. Salary, commission, expenses. 970/268, C. & D. Office.

TRAVELLER with many years experience and connexion with principal firms; in Ireland and elsewhere, seeks re-engagement with a reliable firm, British or Continental Sponge House. 970/248, C. & D. Office.

WELL Introduced representative, 27, seeks house of repute. First-class connexions with Chemists, Doctors, Dentists throughout Eastern and South-Eastern Counties. Keenly interested in cosmetic and toilet trades; experienced in propaganda, detailing. Hard worker, free to travel. Car driver. Highest references. Free now. 970/255, C. & D. Office.

WHOLESALE (OVERSEAS)

PHARMACEUTICAL Chemist taking up residence in Canada desires to represent a first-class Drug or Toilet House. Apply to 970/251, C. & D. Office.

APPOINTMENTS

ASSISTANT PHARMACIST required temporary, about 9 to 12 months, according to J.N.C. scale. Also locum Assistant Pharmacist for 15 weeks from 2nd. Salary 8 guineas per week. Apply to The Pharmacist, King's College 1 Denmark Hill, S.E.5.

BETHLEM ROYAL HOSPITAL, Ed. Beckenham, Kent. Qualified Locum (sex) required from May 27th to June 2nd and from September 2nd to September 1946. Salary £7 7s. per week plus cost-bonus, 32/6 per week (men) and 27/- (women). Apply Pharmacist.

CHEDDLETON MENTAL HOSPITAL

NR. LEEK, STAFFS.

DISPENSER required with Apothecary Certificate; Resident or Non-Resident, in accordance with Recommendations of the Negotiating Committee (Hospital Staffs) pointment subject to Provisions of the Officers' Superannuation Act. Apply the Medical Superintendent.

CONNAUGHT HOSPITAL,

DISPENSER (Hall) required June 17th inclusive. Five guineas per week. App to be sent to The Secretary.

KENT COUNTY COUNCIL

Applications are invited for the temporary appointment at the Willes Hospital, near Ashford:—

PHARMACIST (M.P.S. or Ph.C.), either Hospital experience preferred. Salary to £325 a year, by increments of £10, cost-of-living bonus at present £59 19s. 6d. for males and £48 4s. 8d. for females, annuities. Medical examination necessary.

Applications, stating age, qualifications, experience, and the names and addresses of responsible persons to whom reference may be made as to professional ability, to be sent County Medical Officer, County Hall, Maidstone, as soon as possible.

KENT COUNTY COUNCIL

PHARMACIST

Applications are invited for the temporary appointment at the County Hospital, Canterbury:

PHARMACIST (M.P.S. or Ph.C.), either Hospital experience preferred. Salary £375 a year by increments of £12 10s. 0d. cost-of-living bonus at present £59 19s. 6d. for males and £48 4s. 8d. for females, annuities. Medical examination necessary.

Applications, stating age, qualifications, experience, and the names and addresses of responsible persons to whom reference may be made as to professional ability to be sent County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATT,
Clerk of the County Council

County Hall,
Maidstone,
May 2, 1946.

LOCUM ASSISTANT PHARMACIST required by MIDDLESEX COUNTY COUNCIL CENTRAL MIDDLESEX COUNTY HOSPITAL, Park Royal, N.W.10, IMMEDIATELY for at least three months. Salary £7 7s. 6d. per week. Apply to MEDICAL DIRECTOR of Hospital.

PHARMACIST required by **MIDDLESEX COUNTY COUNCIL** at **NORTH EX COUNTY HOSPITAL**, Edmon- from July 29, 1946 to October 5, 1946. 7s. p.w. Applications immediately to **DIRECTOR** of Hospital.

ACIST (Holiday Relief) wanted at **Essex County Council Hospital**, Broom- Chelmsford, for the period of July 15-16. Inclusive salary at the rate of a week. Applications, together with not more than three recent testi- should be addressed to the Clerk of y Council, County Hall, Chelmsford, possible.

ON STATE INSTITUTION

AL DEFECTIVES, NR. RETFORD, NOTTS.

ACIST (Woman) Single. Commencing ge over 21) £223 x £20 to £323 per h with free quarters.

s provided and charged for at cost price ent 14s. weekly.

nts who should be members of the utical Society will be required to carry s of Dispenser.

to certain conditions, this post is le under the Civil Service Superannua-

ations, stating age, experience and s, etc., should be sent to the Medical ndent.

KE'S MENTAL HOSPITAL

MIDDLESBROUGH

APPOINTMENT OF PHARMACIST

(Amended Advertisement)

ations invited for the post of whole-time rmacist to this Hospital. The appoint- pensionable and comes under the s of the Asylums Officers' Superannua- 1909.

ates must be under the age of 35 years t hold the Diploma of M.P.S. or Ph.C. with the Diploma of Bio-Chemical

ccessful Candidate will be required to a medical examination and must reside ointment within the County Borough esbrough.

onsideration will be given to those who s in H.M. Forces.

alary offered is £370 rising to £445 by al increments of £15, according to the ndations of the Joint Negotiating ee (Hospital Staffs).

ations, accompanied by three recent als or references, should be forwarded elay to the Medical Superintendent, e's Hospital, Middlesbrough.

ssing will disqualify.

SAREY COUNTY COUNCIL

ANT PHARMACISTS required at:—

TON COUNTY HOSPITAL, Wolverton- Kingston-on-Thames. (Perm. Appt.)

KE'S HOSPITAL, Guildford. (Temp.

M.P.S. or Ph.C. Salary £250 x £10 to a., plus bonus 23/- p.w. male, 18/6 p.w.

Apply to Medical Superintendent of ate hospital.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less

ADVERTISER has limited quantity of No. 1 Tablet Bottles, samples and price on request. Carbot, Ltd., 201/5 Long Lane, Bermondsey, S.E.1.

APPROXIMATELY 30 cwt. Mag. Carb. Pond: for sale. For further particulars apply: Milton Antiseptic Limited, 10/12 Brewery Road, London, N.7.

FOR SALE, found to be surplus stock, 56 lbs. Oil of Cloves, offered at 15/- per lb. 969/212, C. & D. Office.

FOR SALE. 1-oz square Amber jars, black metal screw caps. 40/- gross., carriage extra. Edwards, Chemist, Blaenau Festiniog.

FOR SALE. Two 6 ft. by 29 in. mahogany sloping lift-up glass top counter cases. Perfect condition. Seen at Nageles, 8/12 Broadwick Street, Wardour Street, W.1.

METAL Screw Caps for 1 oz., 2 oz. and 4 oz. jars, gilt, white and black enamel, tinned, etc. Several hundred gross for disposal. Offers wanted. Anglo-American Pharmaceutical Co., Ltd., Dingwall Road, Croydon.

MUST be Cleared. About 1 ton good quality Lard Soap Stock. About 15 cwt. good quality Petroleum Jelly. At cheapest prices. Can be inspected at 81/82 Roman Way, London, N.7.

SACCHARIN Envelopes, limited stocks now available; minimum supply 6,000 lots at 6/6 a thousand. Lewis East, Ltd., Envelope Makers, Leicester.

5 LBS. U.S.P. soluble saccharin (best offer) 7 or more each. Tragacanth. Ammon. Chlor. Pure, Pot. Citrate, Nit. and Permang. Alex. senna pods, Liq. Iodi. Mit. Decol. Quantity half elastic Hair Nets and wallets. Samples sent if desired and best offers appreciated or will quote if preferred (or exchange).—Henning, Ltd., Larne, N.I.

BUSINESS OPPORTUNITIES

12/6 for 36 words or less, 2d. for every additional word.

FIRM of Tablet Manufacturers are now able to undertake the manufacture of Saccharin and Aspirin Tablets from customers' own material. Excipients supplied. Prompt delivery. 970/261, C. & D. Office.

TO TABLET MANUFACTURERS.

LONDON firm of Manufacturing Chemists with ample accommodation would like to come to suitable arrangement or would purchase outright a Tablet Making factory. 966/128, C. & D. Office.

OLD-ESTABLISHED Firm wishes to acquire a mills concern for the grinding of spices and gums. Please forward full particulars to 969/202, C. & D. Office.

WELL-EQUIPPED Factory, Home Counties. Packing facilities for liquids, powders, pastes and creams. All inquiries, which will be treated in confidence, should be addressed to Chemo-Plastics, Ltd., 59/60 Old Bailey, London, E.C.4. Tel. CITY 1058/9.

BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

ANIMAL Medicine Foods, etc. Manufacturing business required by Pharmacist with unique specialised executive experience. Either active share or outright purchase. Wonderful opportunity for business wishing to expand. Advertiser has eminently successful record in this trade. Replies treated strictest confidence. 970/243, C. & D. Office.

WANTED to purchase, entire or controlling interest in manufacturing and distributing business, preferably dealing with chemists' lines. Only business with established turnover and record of profits considered. 969/210, C. & D. Office.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

A DVERTISER wishes to purchase copy of CHEMIST AND DRUGGIST, November 17, 1945, to complete files for binding purposes. Write Box No. 110, Smiths', 100 Fleet Street, London, E.C.4.

A UTOMATIC Cream Filler wanted at once: big price paid. Shavex Co., Bavaria Road, Holloway, N. 19.

B RUSH Manufacturers anxious to purchase any quantity pony hair. Write particulars of quantity available when advertiser will communicate for samples. 969/214, C. & D. Office.

C HEMIST wishes to purchase formula of a proven antiseptic contraceptive tablet (foam), sine quinine, or invites supplies of a similar product for own pack. 969/213, C. & D. Office.

E DIBLE Sheet and Powdered Gelatin required in large quantities. 965/970, C. & D. Office.

G LYCERIN Wanted, any quantity 1 cwt. upwards. Offers to 967/162, C. & D. Office.

M ANUFACTURERS urgently require 2½ and 1-oz. Essence Bottles. Please quote for small or large quantities to A. E. Bevan, Ltd., 20A Hall Street, Southport, Lancs.

S ACCHARINS. Retailer urgently wants any quantity, packed or bulk, standard strength Saccharin Tablets, large or small quantities. Periodic or regular deliveries. Write Graham BM/CNE2, London, W.C.1.

S IFTER-MIXING Machine and Powder Filling Machine required, new or second-hand. Send fullest details to 967/165, C. & D. Office.

S TEARIC Acid Triple Pressed required in large quantities. 965/969, C. & D. Office.

S WEETENING Tablets or Saccharin Tablets. Bulk or packed. Cash waiting. Any quantity. 968/194, C. & D. Office.

W ANTED to Buy. Lactose edible or B.P. Liquid and dried Malt Extract, to be used for own manufacturing purposes. Write 969/232, C. & D. Office.

W ANTED, 5 and 10 ton lots Aromatic Ground Spent Spices or Drugs. Quotations to 968/172 C. & D. Office.

8 OZ. Plain Medicals, 8-oz. ribbed Ovals, 2 2½-oz. Panels; divisioned Cartons to hold any of these. Samples and prices to S. Tatlow & Co., Ltd., Eckington, Sheffield.

26 OZ. and 13-oz. Wine or Champagne Bottles required. 625/524, C. & D. Office.

EXPORT TRADE

E XPORT Drive. Manufacturing Chemists, able to produce first-class quality cosmetics, are invited to enter in agreement with owners of well-advertised branded name product to manufacture for world-wide distribution and also (but not necessarily) for the home market. Write to S. F. & Partners, Ltd. (Box N.S.C.), 4A Bloomsbury Square, London, W.C.1.

S OLE Agent for Denmark. Danish pharmaceutical firm seeks connexion with British exporters of mineral oil, turkey-red oil, preventatives and sanitary napkins. Please send your answer to Pharmacan, Aalborg, Denmark.

S OUTH Africa. We specialise in the distribution of Ethical Pharmaceutical Products, surgical instruments, dressings, etc., and invite British Manufacturers interested in developing their export trade to write to us. Vernleigh Products (Pty.), Ltd., P.O. Box 9027, Johannesburg.

AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

A NGLO-SCOTTISH Factors. The lead for Northumberland, Durham & England. Manufacturers of reputable products invited to send details of available lines. sound accounts. Offices, Balliol Chamberland. Tel. 6195.

A FIRM of selling agents and distributors retail and wholesale Chemists, H.C.-ops, Departmental Stores, with a large experienced salesmen all fully covered with Bonds are open to consider one or two agencies. Only firms paying high commission large quotas and full delivery considered. C. & D. Office.

B RISTOL and WEST. First-class Chemist and Allied required. Must house. Write first to 968/185, C. & D. Office.

F IRM of Agents require agency for Full representation guaranteed. C. & D. Office.

F RENCHMAN, with English connexion residing in France, is willing to English Houses of first-class repute. The class representation and only good line considered. Able to start immediately. C. & D. Office.

G ENTLEMAN with 20 years' experience manufacturers of pharmaceutical products, desires one or two agencies with houses only, for Lancs, Cheshire and North. 969/209, C. & D. Office.

I NTENSIVE coverage guaranteed by Salesman who offers energetic representation on commission terms to Manufacture Chemists only: Surrey, Sussex, Kent at Tooth and other brushes, thermometers, are non-competitive to lines already 970/240, C. & D. Office.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

L OCK-UP Drug Store, established four years Thickly populated district, S.W. district railway. Big scope for M.P.S. £1,650. Very low rental. Sole reason for old age. £750 all at, no offers. 969/219, Office.

M ANUFACTURERS offer for sale business nationally advertised household clear complete with filling machine, stock, capital. Excellent opportunity. Capital approx £2,000. Principals only. Write Box PA733. Advertising, 36 Leadenhall Street, E.C.3.

P ACKING Business situated in Belfast, Ireland, doing business with Grocers Chemists throughout this area; ample labour available for extension. Unique opportunity for firm or individual to get into this virgin Audited accounts. Apply 968/173, C. & D.

PARTNERSHIPS

A CTIVE Partnership required by Qualified in Wholesale or Manufacturing in London. Capital £2,000 to £3,000 available. C. & D. Office.

Q UALIFIED Partner required to manage W.C.1. area. Excellent prospects. under 40. 969/206, C. & D. Office.

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